

Product Datasheet

alpha Tubulin Antibody (DM1A) - BSA Free NB100-690

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB100-690

alpha Tubulin Antibody (DM1A) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	DM1A
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	50 kDa
Product Description	
Description	As the TUBA1A gene is conserved evolutionarily and is ubiquitously expressed in most eukaryotic cell lines, the Alpha tubulin antibody has been shown to be an attractive and effective choice for a loading control, detecting at approximately 50 -55 kDa. Quantitative western blotting requires a loading control in order to account and adjust for the differences in the loading of samples across wells.
Host	Mouse
Gene ID	7846
Gene Symbol	TUBA1A
Species	Human, Mouse, Rat, Porcine, Avian, Bovine, Canine, Chicken, Chinese Hamster, Drosophila, Fungi, Guinea Pig, Goat, Hamster, Parasite, Monkey, Primate, Rabbit, Xenopus, Yeast
Reactivity Notes	Use in Mouse reported in scientific literature (PMID:34871568) Use in Mouse reported in scientific literature (PMID:34533563). Yeast reactivity reported in scientific literature (PMID: 25126732). Goat reactivity reported in scientific literature (PMID:31805146). Will likely react with all mammals.
Marker	Microtubule Marker
Specificity/Sensitivity	This alpha Tubulin Antibody (DM1A) does not cross-react with beta Tubulin.
Immunogen	This alpha Tubulin Antibody (DM1A) was developed against native chicken brain microtubules.
Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunomicroscopy, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot 1:5000, Simple Western 1:50, Flow Cytometry 1 ug per million cells, Immunohistochemistry 1:100-1:500, Immunocytochemistry/ Immunofluorescence 1:50000-1:100000, Immunoprecipitation 1:50-1:100, Immunohistochemistry-Paraffin 1:100-1:500, Immunohistochemistry-Frozen 1:100-1:500, Immunomicroscopy, Flow (Intracellular), CyTOF-ready



Application Notes

This alpha Tubulin Antibody (DM1A) is useful as a loading control for Western blot as well as Immunoprecipitation, Immunohistochemistry on paraffin-embedded and frozen sections, Immunocytochemistry/Immunofluorescence and Flow Cytometry.

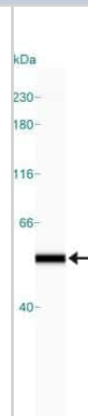
The DM1A alpha tubulin antibody is ideal for use as a Western blot loading control, where a band can be seen around 50-55 kDa and as a cytoskeletal marker in ICC. For IHC-Paraffin, antigen retrieval is not essential, but may optimize staining.

Simple Western reported by an internal validation. Separated by Size-Jess/Wes, Sally Sue/Peggy Sue; matrix was 12-230 kDa. Only 10 - 15 ul of the recommended dilution is used per data point.

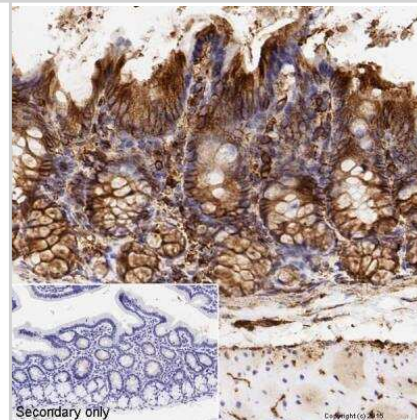
This antibody is CyTOF ready.

Images

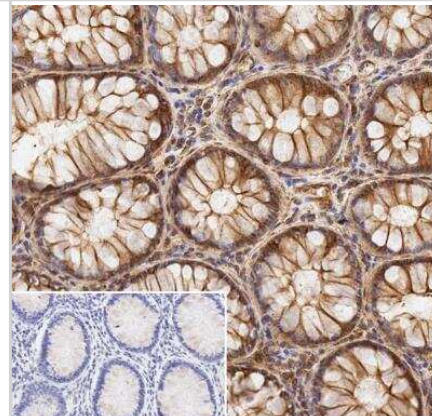
Simple Western: alpha Tubulin Antibody (DM1A) [NB100-690] - Simple Western lane view shows a specific band for alpha Tubulin in 1.0 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. Alpha tubulin molecular weight: 50 kDa.



Immunohistochemistry: alpha Tubulin Antibody (DM1A) [NB100-690] - Analysis of formalin fixed colon sections. Heat mediated antigen retrieval was performed using sodium citrate buffer for 20 min before incubating with primary antibody at a 0.5ug/ml dilution for 15 min at RT.



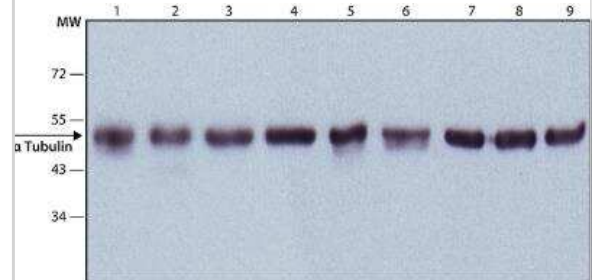
Immunohistochemistry: alpha Tubulin Antibody (DM1A) [NB100-690] - Analysis of colon tissue. Sections were formalin fixed and embedded with paraffin. Sodium citrate heat mediated antigen retrieval for 20 min. Incubated with primary antibody for 15 min at a 5 ug/ml concentration. Corner image is staining with secondary only.



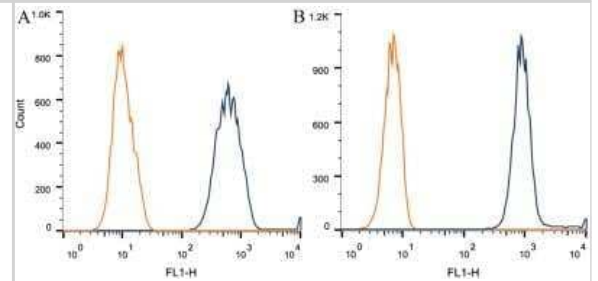
Immunohistochemistry: alpha Tubulin Antibody (DM1A) [NB100-690] - Analysis of formalin fixed paraffin embedded heart sections. Used at a dilution of 1:500.



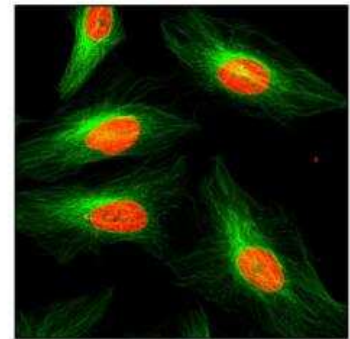
Western Blot: alpha Tubulin Antibody (DM1A) [NB100-690] - Analysis of alpha tubulin in 9 cell lysates. Lane 1. HeLa; Lane 2. JURKAT; Lane 3. COS7; Lane 4. NIH-3T3; Lane 5. PC-12; Lane 6. RAT2; Lane 7. CHO; Lane 8. MDBK; Lane 9. MDCK



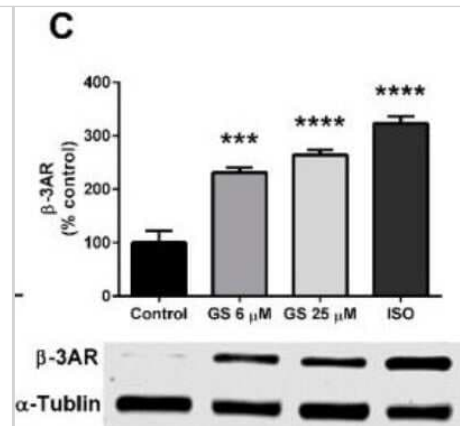
Flow Cytometry: alpha Tubulin Antibody (DM1A) [NB100-690] - Intracellular flow cytometric staining of 1×10^6 CHO (A) and HEK-293 (B) cells using alpha Tubulin antibody (dark blue). Isotype control shown in orange. An antibody concentration of $1 \mu\text{g}/1 \times 10^6$ cells was used.



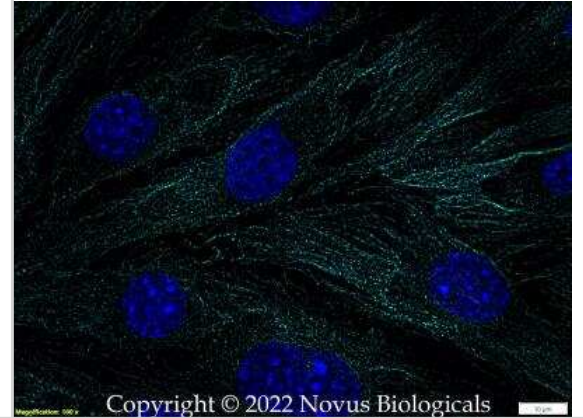
Immunomicroscopy: alpha Tubulin Antibody (DM1A) [NB100-690] - Analysis of HeLa cells, green staining is alpha tubulin whereas red is DNA stained with propidium iodide.



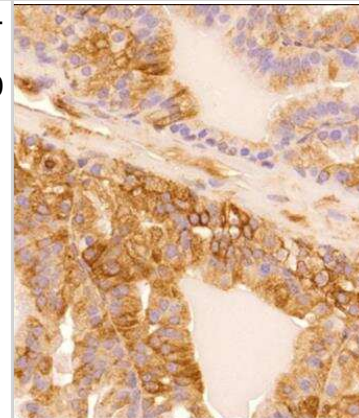
Western Blot: alpha Tubulin Antibody (DM1A) [NB100-690] - GS treatment increases markers of beiging in 3T3-L1 adipocytes. GS treatment upregulates markers of beiging, including beta-3AR (C) proteins. Data presented as mean +/- SEM from n = 4 replicates per group. * p < 0.05, *** p < 0.001 vs. control. Abbreviations: beta-3 adrenergic receptor (beta-3AR). Image collected and cropped by CiteAb from the following publication (<https://www.mdpi.com/2305-6320/6/1/22>), licensed under a CC-BY license.



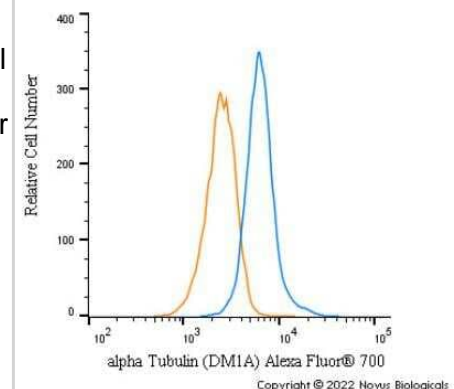
Immunocytochemistry/Immunofluorescence: alpha Tubulin Antibody (DM1A) - BSA Free [NB100-690] - Mouse MS1 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with alpha Tubulin Antibody [DM1A] conjugated to Alexa Fluor 647 (NB100-690AF647) at 2 ug/ml for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



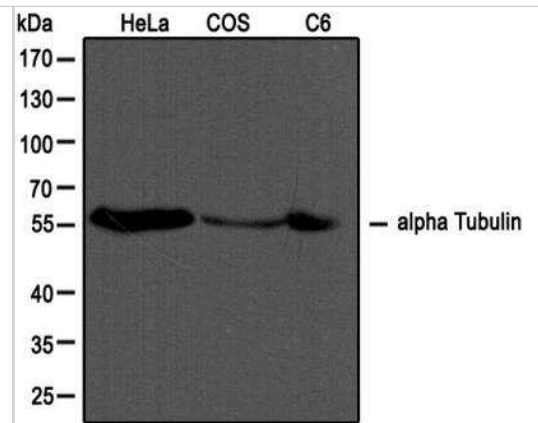
Immunohistochemistry-Paraffin: alpha Tubulin Antibody (DM1A) [NB100-690] - IHC analysis of a formalin fixed and paraffin embedded tissue section of mouse prostate using alpha Tubulin Antibody (DM1A) at 1:200 dilution. The signal was developed using HRP labelled secondary and DAB reagent which followed counterstaining with hematoxylin. The antibody generated a specific cytoplasmic/cytoskeletal staining in the prostate epithelial cells.



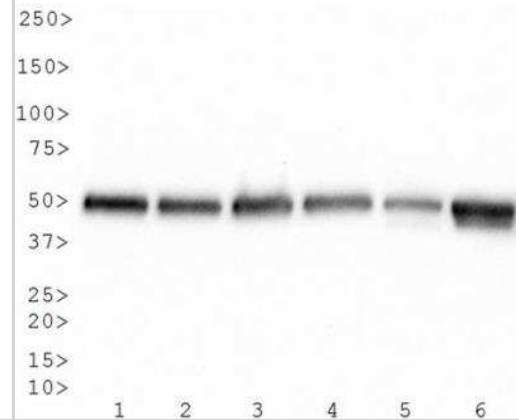
Flow Cytometry: alpha Tubulin Antibody (DM1A) [NB100-690] - An intracellular stain was performed on HeLa cells with alpha Tubulin [DM1A] Antibody NB100-690AF700 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 700.



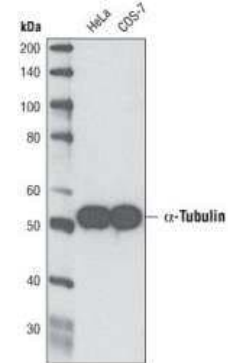
Western Blot: alpha Tubulin Antibody (DM1A) [NB100-690] - Western blot analysis of extracts from HeLa, COS and C6 cells using alpha Tubulin antibody (NB100-690, 1:1000, Alpha tubulin molecular weight: 50 kDa)



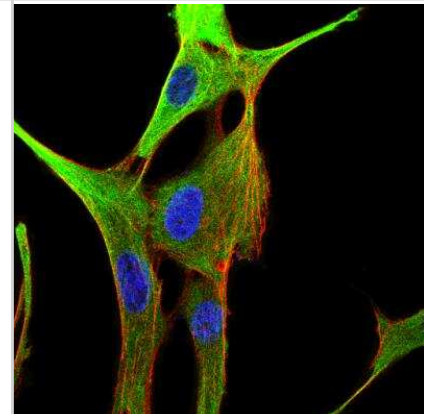
Western Blot: alpha Tubulin Antibody (DM1A) [NB100-690] - Analysis of alpha tubulin (molecular weight of 50 kDa) in 9 cell lysates. Lane 1. HeLa; Lane 2. JURKAT; Lane 3. COS7; Lane 4. NIH-3T3; Lane 5. PC-12; Lane 6. RAT2; Lane 7. CHO; Lane 8. MDBK; Lane 9. MDCK



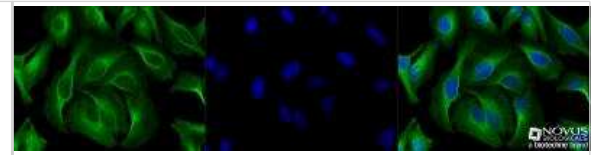
Western Blot: alpha Tubulin Antibody (DM1A) [NB100-690] - Analysis of HeLa and COS-7 lysates. Alpha tubulin molecular weight: 50 kDa.



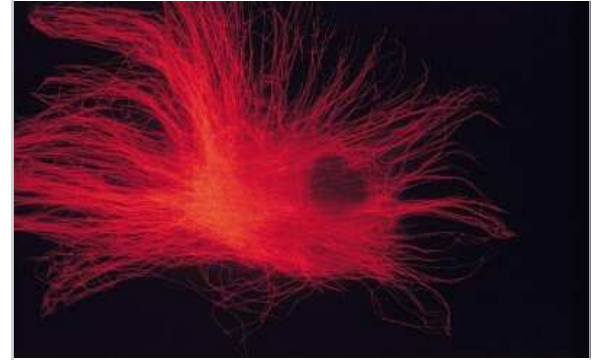
Immunocytochemistry/Immunofluorescence: alpha Tubulin Antibody (DM1A) [NB100-690] - IF Confocal analysis of C6 cells using alpha Tubulin antibody (NB100-690, 1:50). An Alexa Fluor 488-conjugated Goat to mouse IgG was used as secondary antibody (green, A). Actin filaments were labeled with Alexa Fluor 568 phalloidin (red, B). DAPI was used to stain the cell nuclei (blue, C).



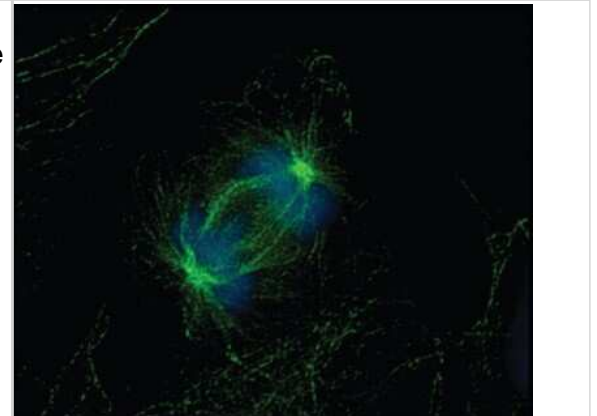
Immunocytochemistry/Immunofluorescence: alpha Tubulin Antibody (DM1A) [NB100-690] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with anti-alpha Tubulin (DM1A) (NB100-690) at a 1:200 dilution overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



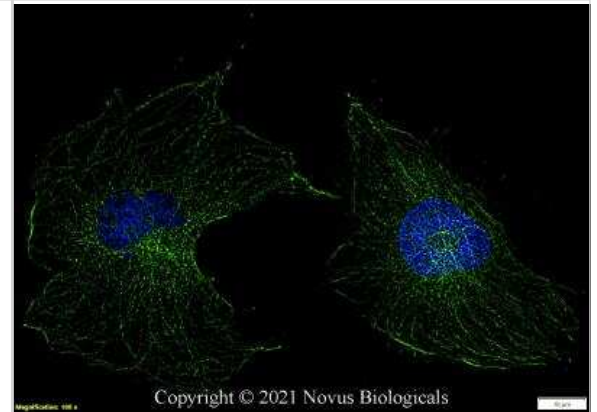
Immunocytochemistry/Immunofluorescence: alpha Tubulin Antibody (DM1A) [NB100-690] - Staining of skin fibroblasts.



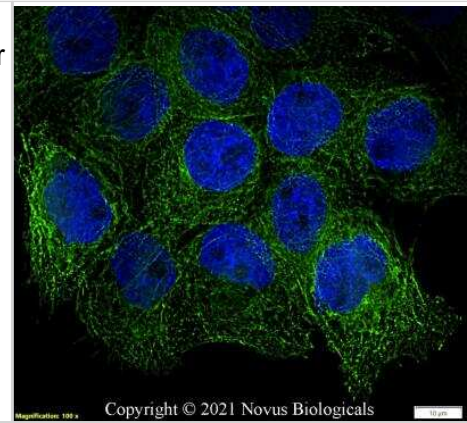
Immunocytochemistry/Immunofluorescence: alpha Tubulin Antibody (DM1A) [NB100-690] - Analysis of embryonic fibroblasts in the anaphase portion of mitosis.



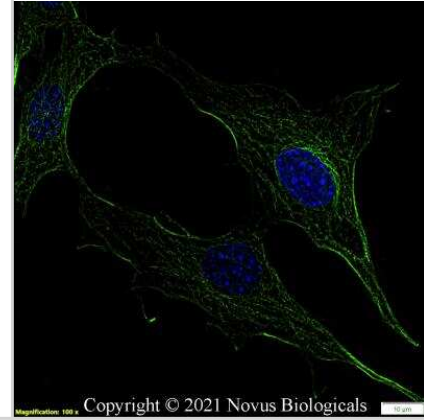
Immunocytochemistry/Immunofluorescence: alpha Tubulin Antibody (DM1A) [NB100-690] - U-251 MG cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti-alpha Tubulin Antibody [DM1A] conjugated to Alexa Fluor 488 (NB100-690AF488) at 5 ug/ml for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



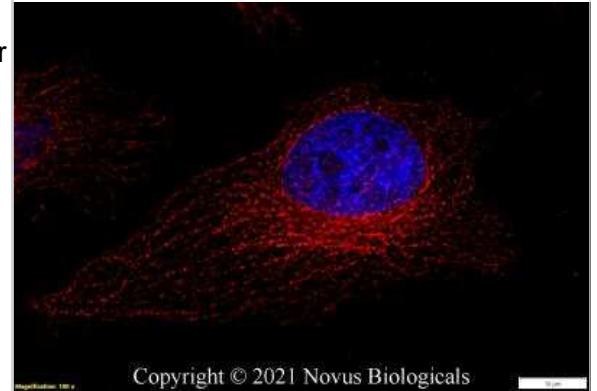
Immunocytochemistry/Immunofluorescence: alpha Tubulin Antibody (DM1A) [NB100-690] - A431 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti-alpha Tubulin Antibody [DM1A] conjugated to Alexa Fluor 488 (NB100-690AF488) at 5 ug/ml for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



Immunocytochemistry/Immunofluorescence: alpha Tubulin Antibody (DM1A) [NB100-690] - NIH3T3 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti-alpha Tubulin Antibody [DM1A] conjugated to Alexa Fluor 488 (NB100-690AF488) at 5 ug/ml for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



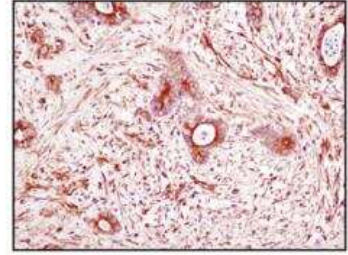
Immunocytochemistry/Immunofluorescence: alpha Tubulin Antibody (DM1A) [NB100-690] - HeLa cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with alpha Tubulin Antibody [DM1A] conjugated to Janelia Fluor 549 (NB100-690JF549) at 5 ug/ml for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



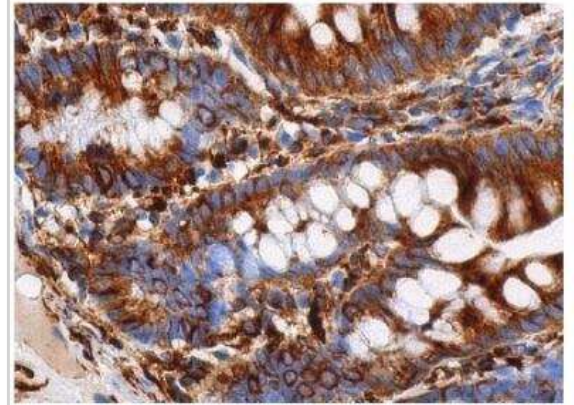
Immunocytochemistry/Immunofluorescence: alpha Tubulin Antibody (DM1A) [NB100-690] - HeLa cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with alpha Tubulin Antibody [DM1A] conjugated to Janelia Fluor 549 (NB100-690JF549) at 5 ug/ml for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



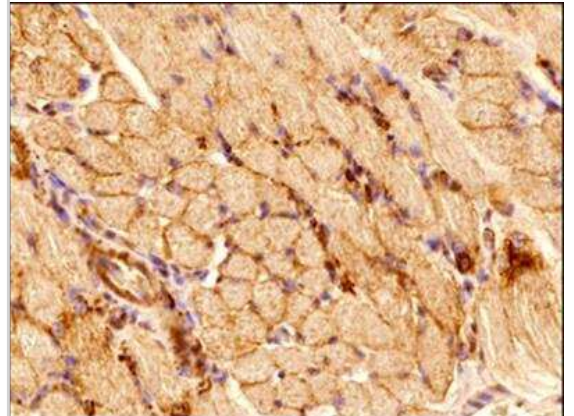
Immunohistochemistry: alpha Tubulin Antibody (DM1A) [NB100-690] - Analysis of paraffin embedded colon sections.



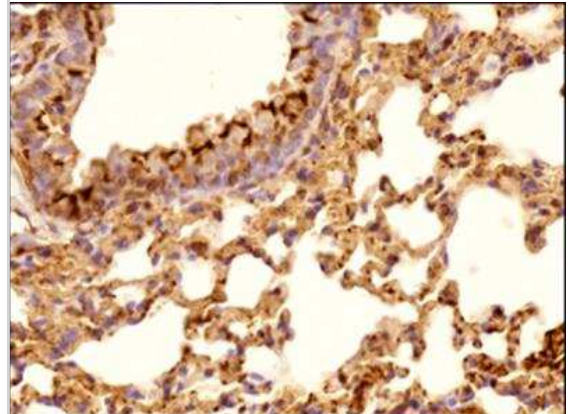
Immunohistochemistry: alpha Tubulin Antibody (DM1A) [NB100-690] - Analysis of small intestine tissue fixed with formalin and paraffin embedded showing cytoplasmic and cytoskeletal staining of glandular cells.



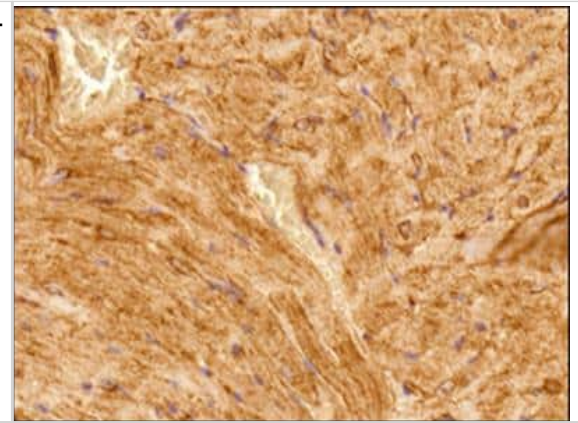
Immunohistochemistry-Paraffin: alpha Tubulin Antibody (DM1A) [NB100-690] - IHC analysis of a formalin fixed paraffin embedded tissue section of mouse skeletal muscle using alpha Tubulin Antibody (DM1A) at 1:100 dilution with HRP-DAB detection and hematoxylin counterstaining. The antibody generated a strong cytoplasmic signal in the muscle cells with cytoplasmic-nuclear signal in the endothelial cells.



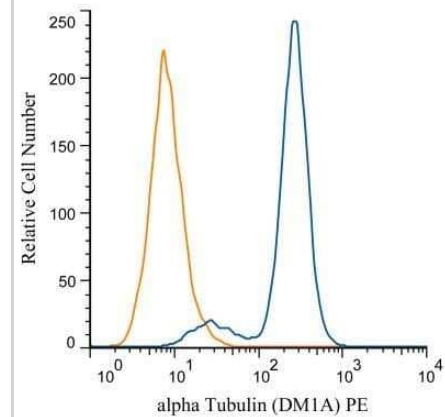
Immunohistochemistry-Paraffin: alpha Tubulin Antibody (DM1A) [NB100-690] - IHC analysis of a formalin fixed paraffin embedded tissue section of mouse lung using alpha Tubulin Antibody (DM1A) at 1:100 dilution with HRP-DAB detection and hematoxylin counterstaining. The antibody generated chunks of cytoplasmic signal in the alveolar and bronchiolar epithelial cells.



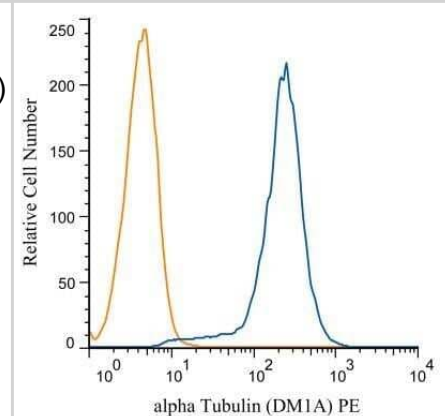
Immunohistochemistry-Paraffin: alpha Tubulin Antibody (DM1A) [NB100-690] - IHC analysis of a formalin fixed paraffin embedded tissue section of mouse heart using alpha Tubulin Antibody (DM1A) at 1:100 dilution with HRP-DAB detection and hematoxylin counterstaining. The antibody generated a strong and specific cytoplasmic signal in the muscle cells.



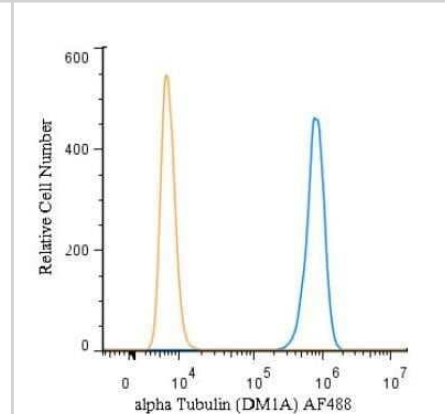
Flow Cytometry: alpha Tubulin Antibody (DM1A) [NB100-690] - Analysis of PE conjugate of NB100-690. An intracellular stain was performed on RAW 246.7 cells with Alpha Tubulin antibody (DM1A) NB100-690PE (blue) and a matched isotype control NBP2-27287PE (orange). Cells were fixed with 4% PFA and then permeablized wi



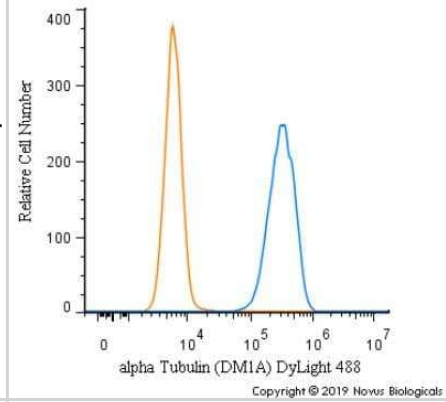
Flow Cytometry: alpha Tubulin Antibody (DM1A) [NB100-690] - Analysis of PE conjugate of NB100-690. An intracellular stain was performed on SH-SY5Y cells with Alpha Tubulin antibody (DM1A) NB100-690PE (blue) and a matched isotype control NBP2-27287PE (orange). Cells were fixed with 4% PFA and then permeablized with



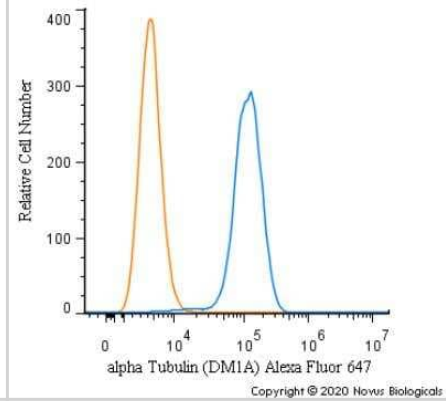
Flow (Intracellular): alpha Tubulin Antibody (DM1A) [NB100-690] - An intracellular stain was performed on HeLa cells with alpha Tubulin Antibody (DM1A) NB100-690AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488. Image from the Alexa Fluor 488 version of this antibody.



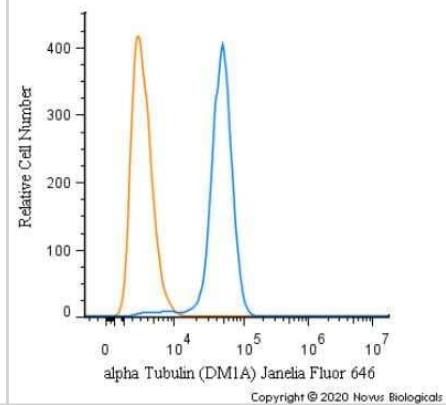
Flow Cytometry: alpha Tubulin Antibody (DM1A) [NB100-690] - An intracellular stain was performed on HeLa cells with alpha Tubulin (DM1A) Antibody NB100-690G (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to DyLight 488.



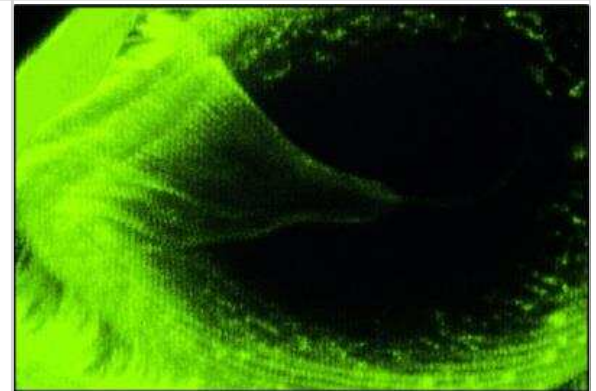
Flow Cytometry: alpha Tubulin Antibody (DM1A) [NB100-690] - An intracellular stain was performed on HeLa cells with alpha Tubulin [DM1A] Antibody NB100-690AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



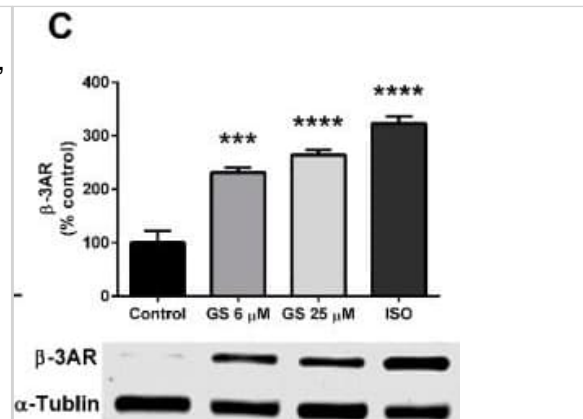
Flow Cytometry: alpha Tubulin Antibody (DM1A) [NB100-690] - An intracellular stain was performed on HeLa cells with alpha Tubulin (DM1A) Antibody NB100-690JF646 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Janelia Fluor 646.



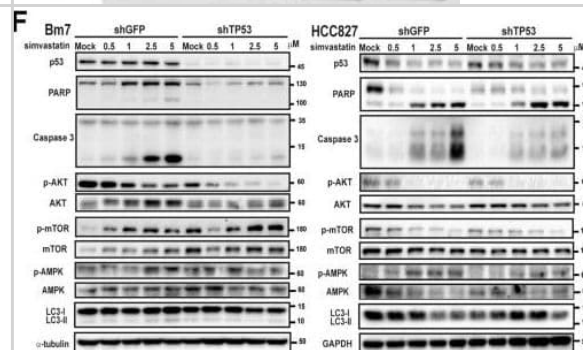
Immunomicroscopy: alpha Tubulin Antibody (DM1A) [NB100-690] - Staining of the marine parasite *Cryptocaryon irritans* mouth. Large bundles of microtubules form a cytophyrgeal basket.



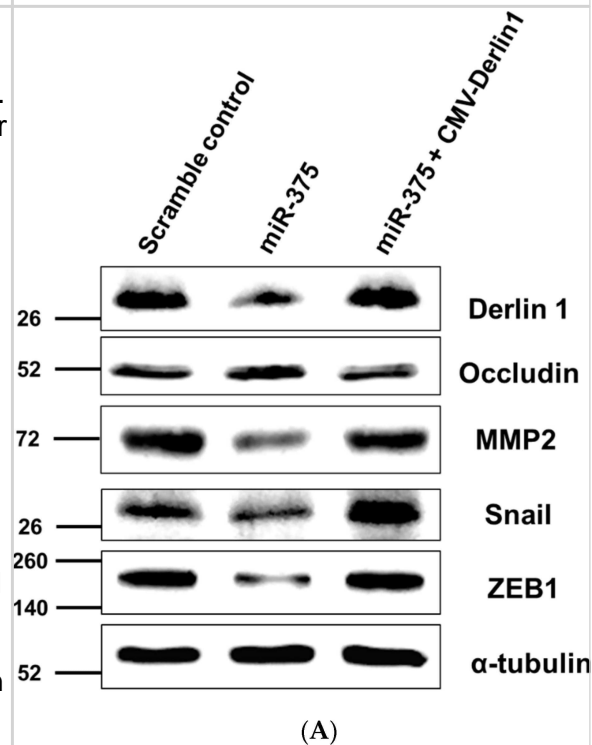
GS treatment increases markers of beigeing in 3T3-L1 adipocytes. GS treatment upregulates markers of beigeing, including UCP1 (A), TBX1 (B), and β -3AR (C) proteins. Data presented as mean \pm SEM from $n = 4$ replicates per group. * $p < 0.05$, *** $p < 0.001$ vs. control. Abbreviations: isoproterenol (ISO), uncoupling protein 1 (UCP1), glyceraldehyde 3-phosphate dehydrogenase (GAPDH), T-box protein 1 (TBX1), β -3 adrenergic receptor (β -3AR).



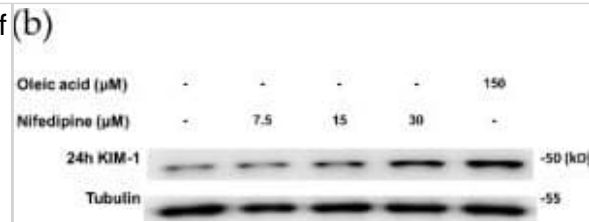
Simvastatin increases cytotoxicity in lung cancer cells. (F) Western blots of indicated proteins involved in apoptosis and autophagy in both Bm7 and HCC827 cells with control (shGFP) and p53 knockdown (shTP53) treated with simvastatin is shown. MDM2, murine double minute 2; AKT, serine-threonine kinase; PARP, poly (ADP-ribose) polymerase; mTOR, mammalian target of rapamycin; WT, wild type. Full-length blots/gels are presented in Supplementary Fig. 1. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31892709>), licensed under a CC-BY licence.



Role of HIF-1 α , FOXO3 in hypoxia-induced BNIP3 expression. (A) UCB-hMSCs were incubated with various durations of hypoxia (0–48 h). The protein expressions of HIF-1 α and β -actin were detected by western blot. $n = 4$. (B) UCB-hMSCs were pretreated with NAC (5 mM) for 30 min prior to hypoxia incubation for 24 h. The protein expressions of HIF-1 α , lamin A/C and β -tubulin in non-nuclear and nuclear fractionized cell samples were assessed by using western blot. $n = 3$. (C) UCB-hMSCs were immuno-stained with HIF-1 α and PI (magnification $\times 600$). Scale bars, 37.5 μ m. (D) HIF1A siRNA or NT siRNA was transfected to cells prior to hypoxia treatment for 24 h. The mRNA expression of BNIP3 was analyzed by qPCR. $n = 6$. (E) The protein expressions of BNIP3 and HIF-1 α were detected by western blot. $n = 4$. (F) NAC (5 mM) was pretreated to UCB-hMSCs prior to hypoxia treatment for 24 h. FOXO3, lamin A/C and β -tubulin proteins expressions were assessed by western blot. $n = 3$. (G) FOXO3 siRNA transfected to UCB-hMSCs prior to hypoxia treatment for 24 h. The FOXO3 mRNA expression was measured by qPCR. $n = 6$. (H) BNIP3, FOXO3 and β -actin expressions were detected by western blot. $n = 3$. Western blot data were normalized by β -actin, and qPCR data were normalized by ACTB mRNA expression level. Lamin A/C and β -tubulin were used as nuclear and non-nuclear protein controls, respectively. Quantitative data are presented as a mean \pm S.E.M. All blots and confocal images are representative. * $p < 0.05$ versus control, # $p < 0.05$ versus hypoxia. Image collected and cropped by CiteAb from the following open publication (<https://linkinghub.elsevier.com/retrieve/pii/S2213231717303804>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



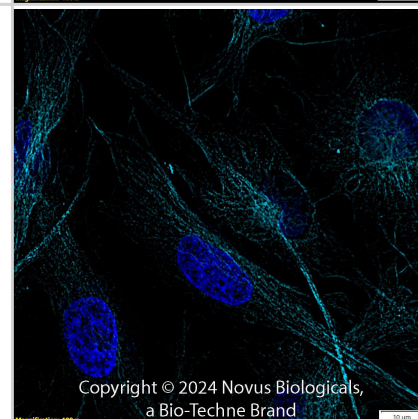
Elevated levels of additional proteins and GM3 ganglioside in the MEC of MPS IIIB brain. Staining performed with antibodies to the indicated substances was observed in the MEC region of 3 month-old MPS IIIB mice (for total ubiquitin and polyubiquitin) and 6 months for all others. Staining was not seen in the MEC region of age-matched control mice (Naglu +/-) nor in the LEC region of MPS IIIB mice (the latter not shown). Image collected and cropped by CiteAb from the following open publication (<https://dx.plos.org/10.1371/journal.pone.0027461>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



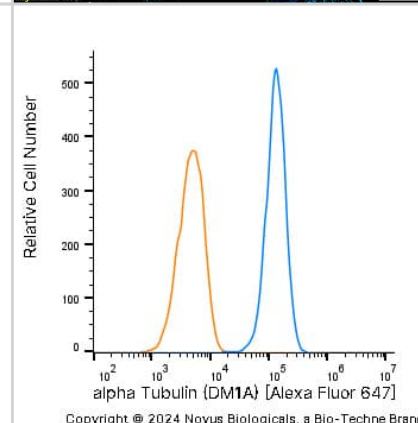
Alpha Tubulin (DM1A) was detected in immersion fixed U-251 MG human glioblastoma cell line using Mouse anti-alpha Tubulin (DM1A) Protein-G purified Monoclonal Antibody conjugated to Alexa Fluor® 647 (Catalog # NB100-690AF647) (light blue) at 2 $\mu\text{g}/\text{mL}$ overnight at 4C. Cells were counterstained with DAPI (dark blue). Cells were imaged using 100X objective and digitally deconvolved.



Alpha Tubulin (DM1A) was detected in immersion fixed U-251 MG human glioblastoma cell line using Mouse anti-alpha Tubulin (DM1A) Protein-G purified Monoclonal Antibody conjugated to Alexa Fluor® 647 (Catalog # NB100-690AF647) (light blue) at 2 $\mu\text{g}/\text{mL}$ overnight at 4C. Cells were counterstained with DAPI (dark blue). Cells were imaged using 100X objective and digitally deconvolved.



U-251 MG human glioblastoma cell line was stained with Mouse anti-alpha Tubulin (DM1A) Protein-G purified Monoclonal Antibody conjugated to Alexa Fluor® 647 (Catalog # NB100-690AF647, blue histogram) or matched control antibody (orange histogram).



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Details:

1:1000 dilution

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