

Product Datasheet

GSK-3 beta Antibody (3D10) - BSA Free NBP1-47470

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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NBP1-47470

GSK-3 beta Antibody (3D10) - BSA Free

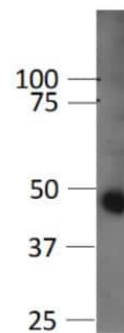
Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3D10
Preservative	0.03% Sodium Azide
Isotype	IgG2a
Purity	Ammonium sulfate precipitation
Buffer	PBS
Target Molecular Weight	46 kDa

Product Description	
Host	Mouse
Gene ID	2932
Gene Symbol	GSK3B
Species	Human, Mouse, Rat, Primate
Immunogen	Purified recombinant fragment of human GSK3 beta expressed in E. coli. [UniProt# P49841]

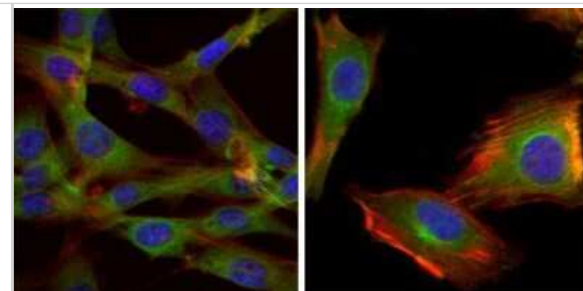
Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500-1:2000, Simple Western 1:50, Flow Cytometry 1:200-1:400, ELISA 1:10000, Immunohistochemistry 1:200-1:1000, Immunocytochemistry/Immunofluorescence 1:200-1:1000, Immunohistochemistry-Paraffin 1:200-1:1000
Application Notes	This GSK3 beta (3D10) antibody is useful for Western blot, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry on paraffin-embedded sections and ELISA. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue.

Images

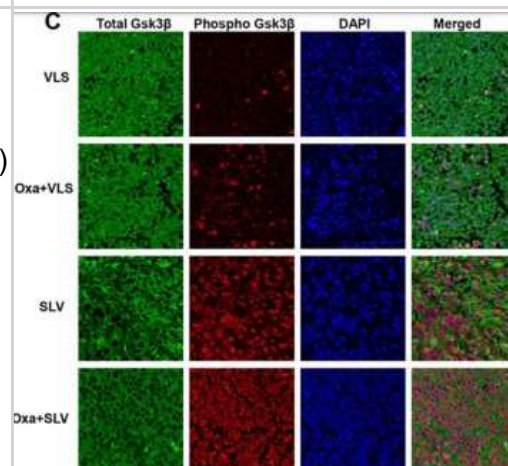
Western Blot: GSK-3 beta Antibody (3D10) [NBP1-47470] - Analysis of GSK-3 beta in mouse beta cell line (betaTC3) using anti-GSK-3 beta antibody. Image from verified customer review.



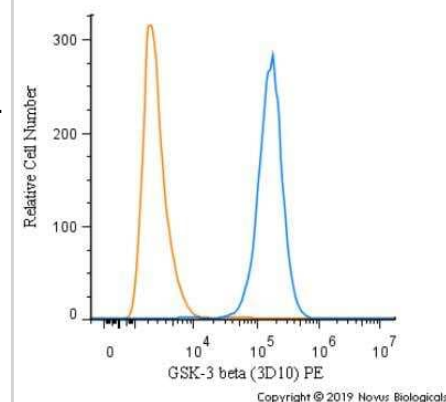
Immunocytochemistry/Immunofluorescence: GSK-3 beta Antibody (3D10) [NBP1-47470] - Analysis of NIH/3T3 (left) and U251 (right) cells using GSK3 beta mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



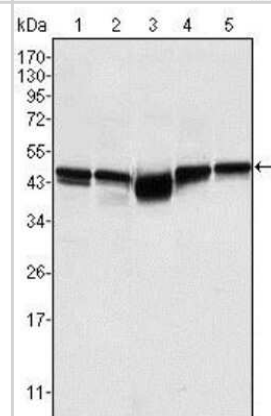
Immunohistochemistry: GSK-3 beta Antibody (3D10) [NBP1-47470] - Fap1-inhibition with SLV peptide increases phosphorylation of Fap1-substrates Fas and GSK-3 beta in a murine xenograft model. SW620 cells injected into flanks of athymic Nude mice & tumor volume was checked biweekly. Mice treated weekly with oxaliplatin (days 0, 7 and 14) & injected daily with Fap1 blocking SLV peptide, VLS control peptide, or treated with SLV or VLS peptide alone (n=12). Tumors were simultaneously harvested when control tumors were >2,000 mm³. SLV peptide increases Gsk3-phosphorylation with/without oxaliplatin. IF detection of total versus phospho- GSK-3 beta performed with DAPI staining of nuclei (areas without gland formation were selected). Image collected and cropped by CiteAb from the following publication (<https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.25401>), licensed under a CC-BY license.



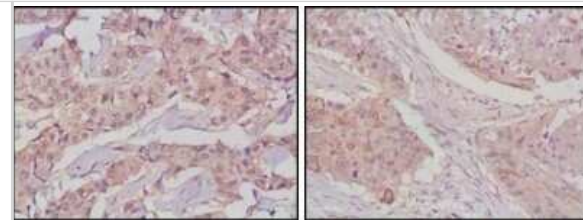
Flow Cytometry: GSK-3 beta Antibody (3D10) [NBP1-47470] - An intracellular stain was performed on HeLa cells with GSK-3 beta (3D10) antibody NBP1-47470PE (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Phycoerythrin.



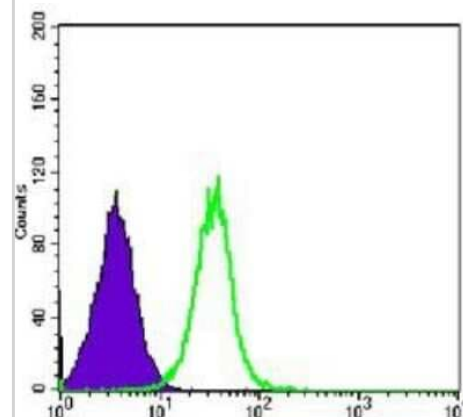
Western Blot: GSK-3 beta Antibody (3D10) [NBP1-47470] - Analysis using GSK3 beta mouse mAb against A549 (1), K562 (2), PC-12 (3), NIH/3T3 (4), and HEK293 (5) cell lysates.



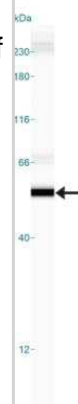
Immunohistochemistry-Paraffin: GSK-3 beta Antibody (3D10) [NBP1-47470] - Analysis of paraffin-embedded human lung cancer (left) and breast cancer tissues (right) using GSK3 beta mouse mAb with DAB staining.



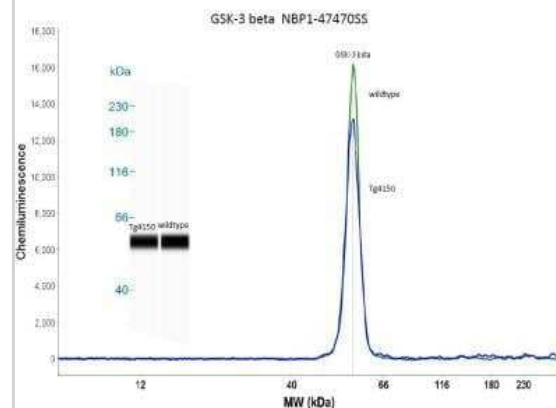
Flow Cytometry: GSK-3 beta Antibody (3D10) [NBP1-47470] - Flow cytometric analysis of Hela cells using GSK3 beta mouse mAb (green) and negative control (purple).



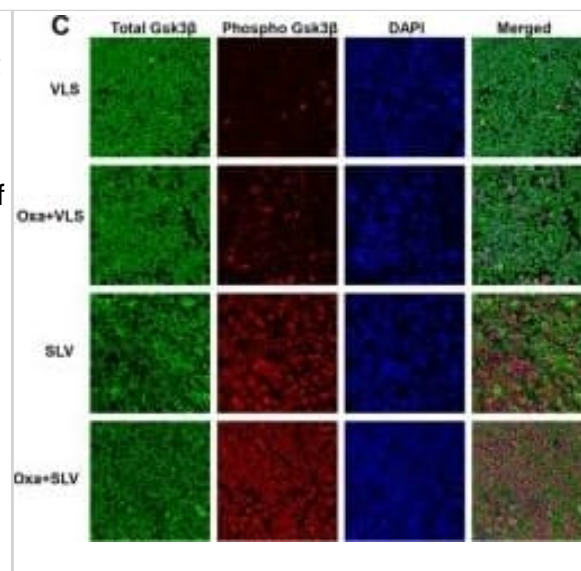
Simple Western: GSK-3 beta Antibody (3D10) [NBP1-47470] - Simple Western lane view shows a specific band for GSK-3 Beta in 0.5 mg/ml of Hek293 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Simple Western: GSK-3 beta Antibody (3D10) [NBP1-47470] - Simple western analysis of mouse brain tissue (striatum) from 4 month old Tg4150 and wildtype mice. Image courtesy of Dr. Brandi Wasek-Patterson at Baylor Research Institute, Institute of Metabolic Disease.



TLR3 \square knockout (TLR3 \square KO) attenuated cardiac autophagy induced by MI. The infarct and remote tissues were separately sampled from the left ventricle after 4 weeks of MI. Accordingly, anterior and posterior tissues of the left ventricle were sampled from sham hearts as controls. (A) Representative Western blot images and quantitative analyses of autophagy markers. n = 4–8/group. Quantitative data are fold changes of WT \square sham. aP < 0.05, AP < 0.01 versus respective WT \square sham; bP < 0.05, BP < 0.01 versus respective WT \square MI. (B) Representative electron microphotographs of ultrathin sections of resin \square embedded heart biopsies. Arrows indicate autophagic vacuoles. (C) Lysates of infarct tissue were immunoprecipitated (IP), followed by SDS–PAGE and immunoblotting (IB) with indicated antibodies. IP with isotype IgG served as a control. Green arrows indicate non \square specific bands. Representative images were taken from four independent experiments. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/28945004>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Enayati A, Salehi A, Alilou M et al. Potentilla reptans L. postconditioning protects reperfusion injury via the RISK/SAFE pathways in an isolated rat heart BMC Complementary Medicine and Therapies 2021-12-01 [PMID: 34823510] (WB)

Lamichhane S, Mo JS, Sharma G et al. MIR133A regulates cell proliferation, migration, and apoptosis by targeting SOX9 in human colorectal cancer cells American journal of cancer research 2022-07-15 [PMID: 35968353] (WB, Mouse)

Cosgun T, Kisacik O Determination of Nurses' Attitudes towards Nutritional Assessment, Level of Knowledge on Nutritional Care, and Perceived Quality of Care Celal Bayar Universitesi Saglık Bilimleri Enstitusu Dergisi 2021-06-30

Feng C, Chen Y, Zhang Y et al. PTEN regulates mitochondrial biogenesis via the AKT/GSK-3 beta/PGC-1 alpha pathway in autism Neuroscience 2021-04-22 [PMID: 33895342]

Purvis N, Kumari S, Chandrasekera D et al. Diabetes induces dysregulation of microRNAs associated with survival, proliferation and self-renewal in cardiac progenitor cells Diabetologia 2021-03-02 [PMID: 33655378] (WB, Mouse)

Dey S, Goswami S, EiSa A et al. Cyclic AMP and glycogen synthase kinase 3 form a regulatory loop in spermatozoa J. Cell. Physiol. 2018-03-25 [PMID: 29574946] (WB, Mouse)

Huang W, Bei L, Eklund EA. Inhibition of Fas associated phosphatase 1 (Fap1) facilitates apoptosis of colon cancer stem cells and enhances the effects of oxaliplatin Oncotarget 2018-05-25 [PMID: 29899829] (IHC-P, Human)

Marathe S, Liu S, Brai E et al. Notch signaling in response to excitotoxicity induces neurodegeneration via erroneous cell cycle reentry Cell Death Differ. 2015-03-27 [PMID: 25822340] (ICC/IF, IF/IHC, Mouse)

Xu R, Hu Q, Ma Q et al. The protease Omi regulates mitochondrial biogenesis through the GSK3B/PGC-1a pathway Cell Death Dis 2014-08-14 [PMID: 25118933]



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NBP1-96778	Mouse IgG2a Isotype Control (M2A)

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