

Product Datasheet

NBR1 Antibody - BSA Free NBP1-71703

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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NBP1-71703

NBR1 Antibody - BSA Free

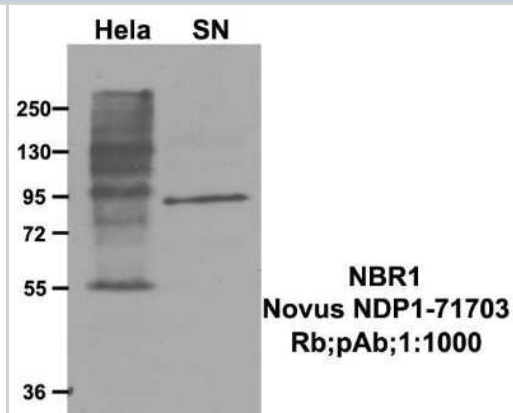
Product Information	
Unit Size	0.1 ml
Concentration	1.24 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

Product Description	
Host	Rabbit
Gene ID	4077
Gene Symbol	NBR1
Species	Human, Mouse
Reactivity Notes	Immunogen has 75% identity to the rat protein.
Immunogen	A genomic peptide made to an internal region of the human NBR1 protein (within residues 50-250). [Swiss-Prot Q14596]
Notes	Manufactured by Genomic Antibody Technology™. GAT FAQs

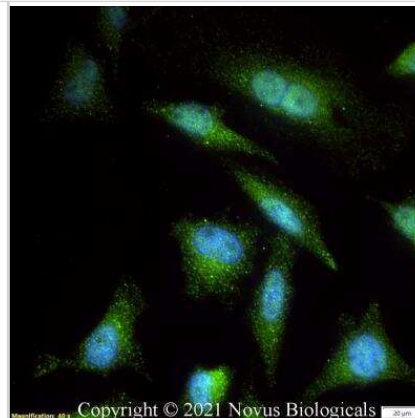
Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Sandwich ELISA Capture
Recommended Dilutions	Western Blot, Simple Western 1:400, ELISA, Immunohistochemistry 1:100, Immunocytochemistry/Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:100, Sandwich ELISA Capture reported by customer review
Application Notes	<p>Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.</p> <p>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue.</p>

Images

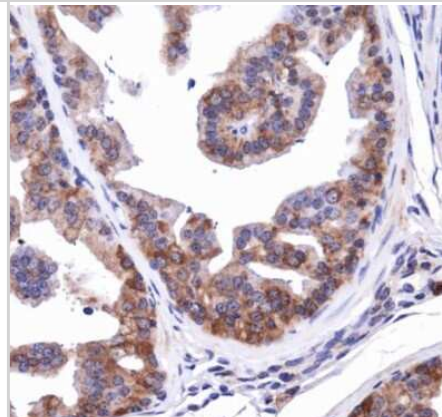
Western Blot: NBR1 Antibody [NBP1-71703] - The antibody detects HeLa cell NBR1 (about 130 kDa). It detects a 100 kDa band in mouse brain. Western blot image submitted by a verified customer review.



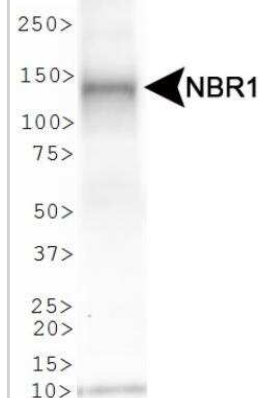
Immunocytochemistry/Immunofluorescence: NBR1 Antibody [NBP1-71703] - HeLa cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with NBR1 Antibody (NBP1-71703) at 1 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



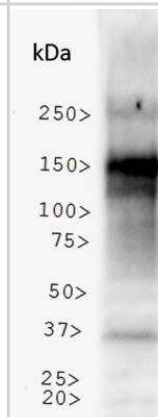
Immunohistochemistry: NBR1 Antibody [NBP1-71703] - Staining of NBR1 in mouse prostate.



Western Blot: NBR1 Antibody [NBP1-71703] - WB analysis of NBR1 in HepG2 cell lysates.



Western Blot: NBR1 Antibody [NBP1-71703] - WB analysis of 30 ug whole cell lysate of HeLa cells using NBR1 antibody.



Simple Western: NBR1 Antibody [NBP1-71703] - Simple Western lane view shows a specific band for NBR1 in 0.5 mg/ml of HepG2 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Publications

Kim MJ, Hwang GY, Cho MJ et al. Depletion of NBR1 in urothelial carcinoma cells enhances rapamycin-induced apoptosis through impaired autophagy and mitochondrial dysfunction *J. Cell. Biochem.* 2019-07-11 [PMID: 31297862]

Di Rienzo M, Antonioli M, Fusco C et al. Autophagy induction in atrophic muscle cells requires ULK1 activation by TRIM32 through unanchored K63-linked polyubiquitin chains *Sci Adv* 2019-05-01 [PMID: 31123703] (WB, Mouse)

Romagnoli A, Petruccioli E, Palucci I et al. Clinical isolates of the modern *Mycobacterium tuberculosis* lineage 4 evade host defense in human macrophages through eluding IL-1B-induced autophagy *Cell Death Dis* 2018-05-24 [PMID: 29795378] (ICC/IF, Human)

Kenific CM, Stehbens SJ, Goldsmith J et al. NBR1 enables autophagy-dependent focal adhesion turnover. *J Cell Biol* 2016-02-22 [PMID: 26903539] (ICC/IF, Human)

Murrow L, Malhotra R, Debnath J. ATG12-ATG3 interacts with Alix to promote basal autophagic flux and late endosome function *Nat. Cell Biol.* 2015-03-01 [PMID: 25686249] (WB)

Malhotra R, Warne JP, Salas E et al. Loss of Atg12, but not Atg5, in pro-opiomelanocortin neurons exacerbates diet-induced obesity *Autophagy*. 2015-01-13 [PMID: 25585051] (WB)

Cullup T, Kho AL, Dionisi-Vici C et al. Recessive mutations in EPG5 cause Vici syndrome, a multisystem disorder with defective autophagy *Nat Genet* 2012-12-09 [PMID: 23222957] (ICC/IF, Human)

Procedures

Immunohistochemistry-Paraffin protocol for NBR1 Antibody (NBP1-71703)

[[URL:https://www.novusbio.com/products/nbr1-antibody_nbp1-71703]][[Caption:NBR1 Antibody]]

Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:

Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes.

Staining:

1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.

Immunocytochemistry/Immunofluorescence protocol for NBR1 Antibody (NBP1-71703)

[[URL:https://www.novusbio.com/products/nbr1-antibody_nbp1-71703]][[Caption:NBR1 Antibody]]

Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.



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Products Related to NBP1-71703

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-71703B	NBR1 Antibody [Biotin]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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