Product Datasheet

Notch-1 Antibody - BSA Free
NBP1-78292

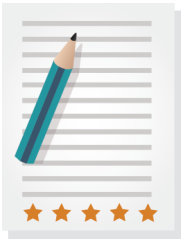
Unit Size: 0.1 ml

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

Reviews: 1 Publications: 5

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-78292

Updated 4/4/2022 v.20.1



NBP1-78292

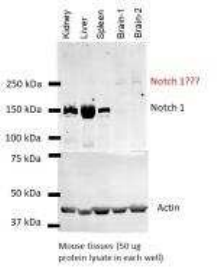
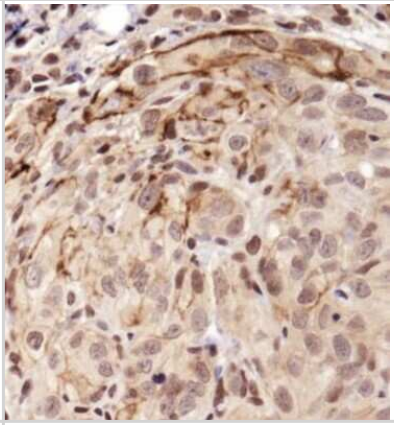
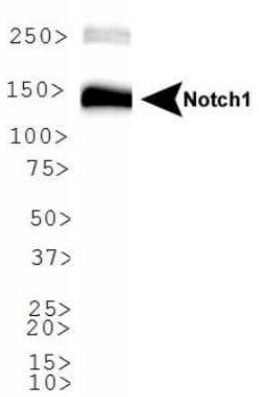
Notch-1 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.18 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 and 30% Glycerol

Product Description	
Host	Rabbit
Gene ID	4851
Gene Symbol	NOTCH1
Species	Human, Mouse
Immunogen	A synthetic peptide made to a C-terminal portion of the human NOTCH1 protein (between residues 2300-2350) [UniProt# P46531]

Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 2 ug/ml, Simple Western 1:50, Immunohistochemistry 1:200, Immunocytochemistry/Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:200
Application Notes	This Notch1 antibody is useful for Western Blot and Immunohistochemistry-Paraffin. In Western Blot, a band is seen ~120 kDa representing the cleaved form of Notch1 peptide. In IHC-P, staining of nucleus and cell membrane was observed in human kidney carcinoma tissue. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended. 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: Notch-1 Antibody [NBP1-78292] - Mouse total protein lysates (50 ug) were separated on 8% SDS-PAGE. Notch-1 (NBP1-78292SS) antibody was used at 1:500 dilution. Actin (1:10,000) was used as normalizer. WB image submitted by a verified customer review.	
Immunohistochemistry: Notch-1 Antibody [NBP1-78292] - Staining of Notch1 in human kidney carcinoma using DAB with hematoxylin counterstain.	
Western Blot: Notch-1 Antibody [NBP1-78292] - Analysis of Cleaved Notch1 in Jurkat cell lysate.	
Simple Western: Notch-1 Antibody [NBP1-78292] - Lane view shows a specific band for Notch-1 in 0.5 mg/ml of Jurkat lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.	

Publications

Canesin G, FeldbrUgge L, Wei G et al. Heme oxygenase-1 mitigates liver injury and fibrosis via modulation of LNX1/Notch1 pathway in myeloid cells iScience 2022-09-01 [PMID: 36093061]

Minguzzi M, Panichi V, D'Adamo S Et al. Pleiotropic Roles of NOTCH1 Signaling in the Loss of Maturational Arrest of Human Osteoarthritic Chondrocytes International journal of molecular sciences 2021-11-05 [PMID: 34769441] (KD, ICC/IF, Human)

Kobayashi T, Piao W, Takamura T et al. Enhanced lysosomal degradation maintains the quiescent state of neural stem cells Nat Commun. 2019-11-29 [PMID: 31784517] (WB, Mouse)

Zhang B, Elmabsout AA, Khalaf H et al. The periodontal pathogen Porphyromonas gingivalis changes the gene expression in vascular smooth muscle cells involving the TGFbeta/Notch signalling pathway and increased cell proliferation. BMC Genomics. 2013-11-09 [PMID: 24209892] (WB, Human)

Park S, Kim J, Kim Y. Mulberry leaf extract inhibits cancer cell stemness in neuroblastoma Nutr Cancer 2012-08-01 [PMID: 22860924] (WB, Human)

Procedures

Western Blot protocol specific for Notch1 antibody (NBP1-78292) WB
Notch-1 Antibody: https://www.novusbio.com/products/notch-1-antibody_nbp1-78292
Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot.
5. Block the membrane using standard blocking buffer for at least 1 hour.
6. Wash the membrane in wash buffer three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate 1 hour at room temperature.
8. Wash the membrane in wash buffer three times for 10 minutes each.
9. Apply the diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer three times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions.
Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%.

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

Immunohistochemistry-Paraffin Embedded Sections protocol specific for Notch1 antibody (NBP1-78292)
Notch-1 Antibody: https://www.novusbio.com/products/notch-1-antibody_nbp1-78292
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.

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Products Related to NBP1-78292

NB800-PC2	Jurkat Whole Cell Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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