

Product Datasheet

Notch-1 Antibody - (Cleaved N terminal) - BSA Free NB300-251-0.1ml

Unit Size: 0.1 ml

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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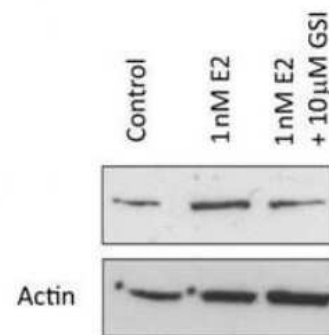
NB300-251-0.1ml

Notch-1 Antibody - (Cleaved N terminal) - BSA Free

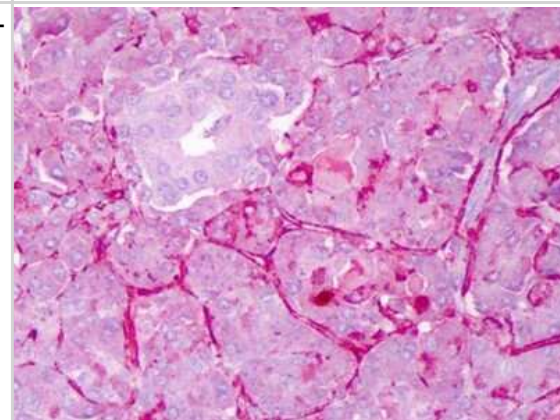
| Product Information | |
|------------------------------------|--|
| Unit Size | 0.1 ml |
| Concentration | This product is unpurified. The exact concentration of antibody is not quantifiable. |
| Storage | Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles. |
| Clonality | Polyclonal |
| Preservative | 0.1% Sodium Azide |
| Isotype | Serum |
| Purity | Unpurified |
| Buffer | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| Product Description | |
| Description | This antiserum is directed against human Notch-1 Store vial at -20C prior to opening. Aliquot contents and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use. |
| Host | Rabbit |
| Gene ID | 4851 |
| Gene Symbol | NOTCH1 |
| Species | Human, Mouse |
| Specificity/Sensitivity | This antiserum is directed against human Notch-1. Based on the immunogen sequence, we expect this antibody to react as well with mouse and rat Notch-1 (100% sequence homology). This antibody reacts with mouse Notch constructs present in lysates of HEK 293 cells. Only the cleaved intracellular (activated) form (NICD) is detected. No reactivity is detected against mouse N2, N3 or N4. The immunogen epitope is only exposed after gamma secretase cleavage and is not accessible in the uncleaved form. |
| Immunogen | This whole rabbit serum was prepared by repeated immunizations with a synthetic peptide corresponding to amino acid residues of human Notch-1 located near the N-terminal sequence of the cleaved N intracellular domain (NICD). (Uniprot: P46531) |
| Product Application Details | |
| Applications | Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation |
| Recommended Dilutions | Western Blot 1:500-1:2000, ELISA 1:20000-1:60000, Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Paraffin 1:200 |
| Application Notes | This product has been tested by ELISA, dot blot, western blot and immunohistochemistry. An 80 kDa band corresponding to Notch 1 was observed at a 1:500 dilution. Specific conditions for reactivity should be optimized by the end user. |

Images

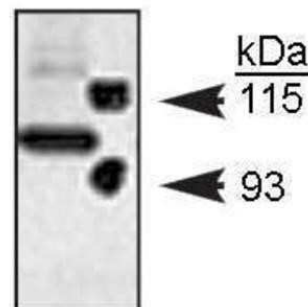
Western Blot: Notch-1 Antibody - (Cleaved N terminal) [NB300-251] - Lane 1: MCF-7 control lysate. Lane 2: MCF-7 +1 nM 17beta-estradiol. Lane 3: MCF-7 + 10 uM gamma secretase inhibitor. Load: 35 ug per lane. Primary antibody: Notch1 antibody at 1:500 for overnight at 4C. Secondary antibody: IRDye800 rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4C. Predicted/Observed size: 80 kDa for Notch1.



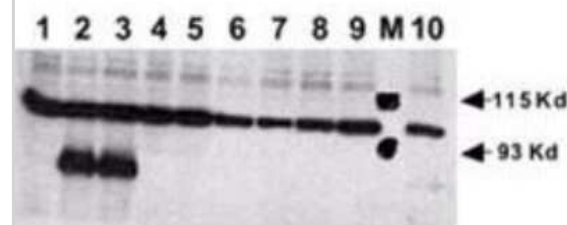
Immunohistochemistry: Notch-1 Antibody - (Cleaved N terminal) [NB300-251] - Analysis of Tissue: Exocrine glands of human pancreas Fixation: FFPE Primary antibody: Notch1 antibody at 1:200 Staining: moderate to strong membranous staining and faint to moderate cytoplasmic staining. Islets showed faint staining.



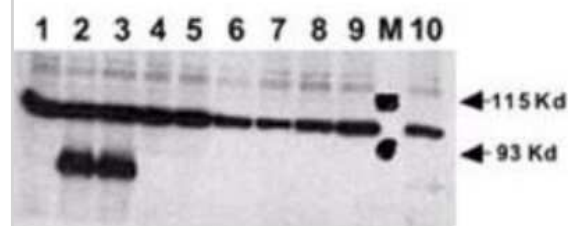
Western Blot: Notch-1 Antibody - (Cleaved N terminal) [NB300-251] - Notch 1 Antibody [NB 300-251]- at 1:500, against myc-tagged transiently transfected mouse Notch constructs in 293 cells.



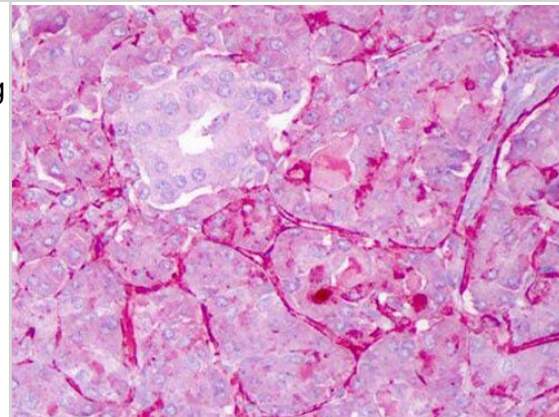
Western Blot: Notch-1 Antibody - (Cleaved N terminal) [NB300-251] - Lane 1: No transfection. Lane 2: N1 (mouse deleted extracellular domain)-myc. Lane 3: N1 (mouse intracellular domain)-myc. Lane 4: N2 (mouse deleted extracellular domain)-myc. Lane 5: N2 (mouse intracellular domain)-myc. Lane 6: N3 (mouse deleted extracellular domain)-myc. Lane 7: N3 (mouse intracellular domain)-myc. Lane 8: N4 (mouse deleted extracellular domain)-myc. Lane 9: N4 (mouse intracellular domain)-myc. Lane 10: N1 (mouse deleted extracellular domain)(V to G)-myc.



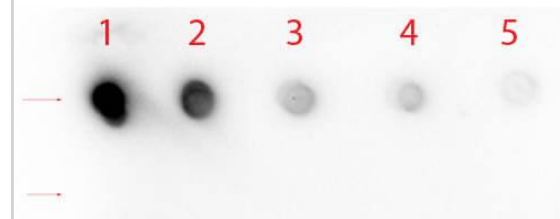
Western Blot: Notch-1 Antibody - (Cleaved N terminal) [NB300-251] - Lane 1: No transfection. Lane 2: N1 (mouse deleted extracellular domain)-myc. Lane 3: N1 (mouse intracellular domain)-myc. Lane 4: N2 (mouse deleted extracellular domain)-myc. Lane 5: N2 (mouse intracellular domain)-myc. Lane 6: N3 (mouse deleted extracellular domain)-myc. Lane 7: N3 (mouse intracellular domain)-myc. Lane 8: N4 (mouse deleted extracellular domain)-myc. Lane 9: N4 (mouse intracellular domain)-myc. Lane 10: N1 (mouse deleted extracellular domain)(V to G)-myc.



Immunohistochemistry of Rabbit Notch-1 Antibody - (Cleaved N terminal). Tissue: Exocrine glands of human pancreas. Fixation: FFPE. Primary antibody: Notch1 antibody at 1:200. Staining: moderate to strong membranous staining and faint to moderate cytoplasmic staining. Islets showed faint staining.



Dot Blot of Rabbit anti-Notch 1 (Cleaved N Terminal) (Human Specific) Antibody. Antigen: Row 1 - Notch 1 Peptide (Cleaved N Terminal) Row 2 - Notch 1 (Intra) Peptide. Load: Lane 1 - 200 ng Lane 2 - 66.67 ng Lane 3 - 22.22 ng Lane 4 - 7.41 ng Lane 5 - 2.47 ng. Primary antibody: Rabbit anti-Notch-1 Antibody - (Cleaved N terminal) at 1:1,000 for 60 min at RT. Secondary antibody: HRP Rabbit Secondary at 1:40,000 for 30 min at RT. Block for 1 HR at RT.



Publications

Han J, Hyun J, Park J et al. Aberrant role of pyruvate kinase M2 in the regulation of gamma-secretase and memory deficits in Alzheimer's disease *Cell reports* 2021-12-07 [PMID: 34879266]

Bhardwaj M, Sharma A, Sen S et al. Chlamydia and ocular adnexal lymphomas: An Indian experience *Exp. Mol. Pathol.* 2016-07-17 [PMID: 27435913] (WB, Human)

Lee HA, Park S, Kim Y. Effect of beta-carotene on cancer cell stemness and differentiation in SK-N-BE(2)C neuroblastoma cells. *Oncol Rep* 2013-10-01 [PMID: 23900747]

Wang J, Zhang Y, Wei J et al. Effect of Notch activation on the regenerative response to acute renal failure. *Am J Physiol Renal Physiol* 2010-01-01 [PMID: 19828677]

Solomon A, Mian Y, Ortega-Cava C et al. Upregulation of the let-7 microRNA with precocious development in lin-12/Notch hypermorphic *Caenorhabditis elegans* mutants. *Dev Biol* 2008-04-01 [PMID: 18334253]

Stylianou S, Clarke RB, Brennan K et al. Aberrant activation of notch signaling in human breast cancer. *Cancer Res* 2006-02-01 [PMID: 16452208]

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

Sciacca S, Pilato M, Mazzoccoli G et al. Anti-correlation between longevity gene SirT1 and Notch signaling in ascending aorta biopsies from patients with bicuspid aortic valve disease *Heart Vessels* 2012-02-28 [PMID: 22370592] (WB, Human)

Milano, J et al. Modulation of Notch Processing by gamma-Secretase Inhibitors Causes Intestinal Goblet Cell Metaplasia Induction of Genes Known to Specify Gut Secretory Lineage Differentiation. *Toxicological Sciences*. [PMID: 15319485]





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Products Related to NB300-251-0.1ml

| | |
|--------------|---|
| NBL1-13725 | Notch-1 Overexpression Lysate |
| NB300-251PEP | Notch-1 Antibody Blocking Peptide |
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |

Limitations

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