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Anti-NOTCH 1 Antibody

Catalog Number: A00033

About NOTCH1

Anti-Notch 1 Antibody recognizes Notch 1 that is synthesized in the endoplasmic reticulum as an inactive form which is proteolytically cleaved by a furin-like convertase (S1 cleavage) in the trans-golgi network before it reaches the plasma membrane to yield an active, ligand-accessible form. Cleavage results in a C-terminal fragment N(TM) and a N-terminal fragment N(EC). Following ligand binding, it is cleaved (S2 cleavage) by TNF-alpha converting enzyme (TACE) to yield a membrane-associated intermediate fragment called Notch extracellular truncation (NEXT). This fragment is then cleaved by presenilin-dependent gamma-secretase (S3 cleavage) to release the intracellular domain (NICD) from the membrane.

Overview

Product Name	Anti-NOTCH 1 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-NOTCH 1 Antibody (Catalog # A00033). Tested in Dot blot, ELISA, IHC, WB applications. This antibody reacts with Human, Mouse.
Application	Dot blot, ELISA, IHC, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.1% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C 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 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	P46531

Technical Details

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).
Predicted Reactive Species	Bovine, C. elegans, Chicken, Drosophila, Hamster, Human, Monkey, Pig, Xenopus
Isotype	Antiserum
Form	Liquid (sterile filtered)
Concentration	90 mg/mL by Refractometry

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Purification	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.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: ELISA: 1:20,000 - 1:60,000 IHC: 1:200 IF Microscopy: User optimized IP: User optimized WB: 1:500- 1:2,000

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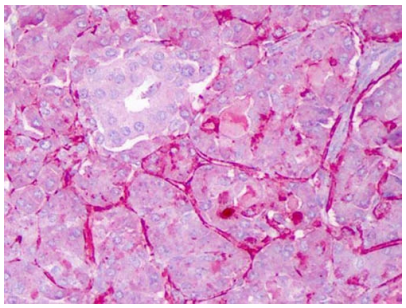
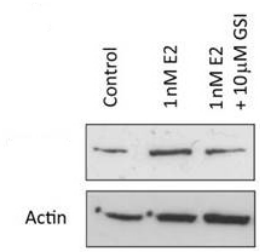
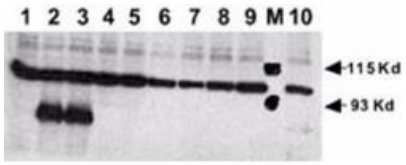
Anti-NOTCH 1 Antibody (A00033) Images



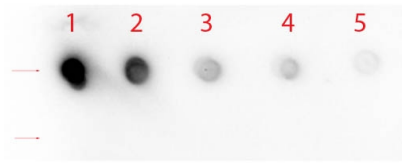
NOTCH 1 was detected in paraffin-embedded sections of exocrine glands of human pancreas using rabbit anti-NOTCH 1 polyclonal antibody (Catalog # A00033) at 1:200. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Western blot analysis of NOTCH 1 expression in MCF-7 control lysates (lane 1), MCF-7 +1 nM 17-estradiol (lane 2) and MCF-7 + 10



Western blot analysis of NOTCH 1 expression in Mol wt markers (lane M), no transfection (lane 1), N1 (mouse deleted extracellular domain)-myc (lane 2), N1 (mouse intracellular domain)-myc (lane 3), N2 (mouse deleted extracellular domain)-myc (lane 4), N2 (mouse intracellular domain)-myc (lane 5), N3 (mouse deleted extracellular domain)-myc (lane 6), N3 (mouse intracellular domain)-myc (lane 7), N4 (mouse deleted extracellular domain)-myc (lane 8), N4 (mouse intracellular domain)-myc (lane 9) and N1 (mouse deleted extracellular domain)(V to G)-myc (lane 10). NOTCH 1 was detected using rabbit anti-NOTCH 1 polyclonal antibody (Catalog # A00033) at 1:500. Personal communication, Dr. Stacey Huppert.



Dot Blot of Rabbit anti-NOTCH 1 polyclonal 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 (Cleaved N Terminal) (Human Specific) Antibody at 1:1000 for 60 min at RT. Secondary antibody: HRP Rabbit Secondary at 1:40000 for 30 min at RT. Block: MB-070 for 1 HR at RT.

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