abcam

Product datasheet

Anti-NOTCH4 antibody - C-terminal ab199295

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Overview

Product name	Anti-NOTCH4 antibody - C-terminal
Description	Rabbit polyclonal to NOTCH4 - C-terminal
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide corresponding to Human NOTCH4 (C terminal). NP_004548 Database link: **Q99466**
Positive control	Human liver cancer and kidney tissue lysates. Human colon cancer tissue.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.4 Preservative: 0.05% Sodium azide Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab199295 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/50 - 1/200.
WB		1/500 - 1/2000. Predicted molecular weight: 210 kDa.

Target

Function
Functions as a receptor for membrane-bound ligands Jagged1, Jagged2 and Delta1 to regulate cell-fate determination. Upon ligand activation through the released notch intracellular domain (NICD) it forms a transcriptional activator complex with RBPJ/RBPSUH and activates genes of the enhancer of split locus. Affects the implementation of differentiation, proliferation and apoptotic programs. May regulate branching morphogenesis in the developing vascular system.

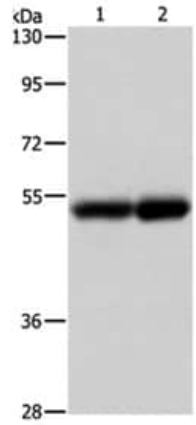
Tissue specificity
Highly expressed in the heart, moderately in the lung and placenta and at low levels in the liver, skeletal muscle, kidney, pancreas, spleen, lymph node, thymus, bone marrow and fetal liver. No expression was seen in adult brain or peripheral blood leukocytes.

Sequence similarities
Belongs to the NOTCH family.
Contains 5 ANK repeats.
Contains 28 EGF-like domains.
Contains 3 LNR (Lin/Notch) repeats.

Post-translational modifications
Synthesized in the endoplasmic reticulum as an inactive form which is proteolytically cleaved by a furin-like convertase 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 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 to release a notch-derived peptide containing the intracellular domain (NICD) from the membrane.
Phosphorylated.

Cellular localization
Cell membrane and Nucleus. Following proteolytical processing NICD is translocated to the nucleus.

Images



Western blot - Anti-NOTCH4 antibody - C-terminal (ab199295)

All lanes : Anti-NOTCH4 antibody - C-terminal (ab199295) at 1/500 dilution

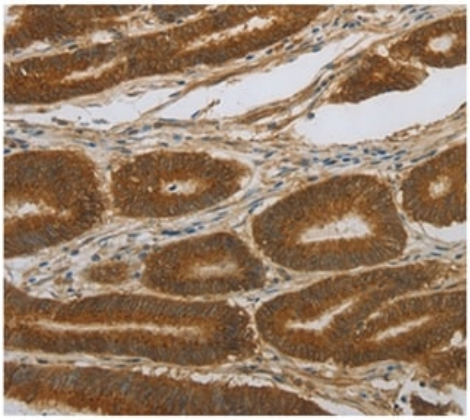
Lane 1 : Human liver cancer lysate
Lane 2 : Human kidney lysate

Lysates/proteins at 40 µg per lane.

Predicted band size: 210 kDa

Exposure time: 2 minutes

Gel: 8% SDS-PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NOTCH4 antibody - C-terminal (ab199295)

Immunohistochemical analysis of paraffin-embedded Human colon cancer tissue labeling NOTCH4 using ab199295 at 1/30 dilution.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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