

Anti-NOTCH4 Antibody

Catalog # ABO11139

Product Information

Application	WB
Primary Accession	Q99466
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Neurogenic locus notch homolog protein 4(NOTCH4) detection. Tested with WB in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	4855
Other Names	Neurogenic locus notch homolog protein 4, Notch 4, hNotch4, Notch 4 extracellular truncation, Notch 4 intracellular domain, NOTCH4, INT3
Calculated MW	209622
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Cell membrane; Single-pass type I membrane protein.
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.
Source	Eukaryota
Protein Name	Neurogenic locus notch homolog protein 4(Notch 4)
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human NOTCH4(1805-1818aa DVAHQRNHWDLTL).
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the NOTCH family.

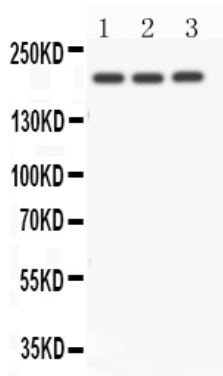
Protein Information

Name	NOTCH4 (HGNC:7884)
Synonyms	INT3
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 (By similarity).
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	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

Background

NOTCH4 (NOTCH, DROSOPHILA, HOMOLOG OF, 4) also known as INT3 or NOTCH3, FORMERLY, is a member of the Notch family. In situ hybridization revealed that Notch4 transcripts are primarily restricted to endothelial cells in embryonic and adult life, suggesting a specific role for Notch4 during development of vertebrate endothelium. The sequences of the mouse and human NOTCH4 proteins are 82% identical. Northern blot analysis revealed that NOTCH4(S) is the major transcript and is expressed in a wide variety of tissues. Fluorescence in situ hybridization confirmed the location of the NOTCH4 gene at chromosome 6p21.3. In linkage disequilibrium mapping of the MHC region in 80 British parent-offspring trios, Wei and Hemmings(2000) found that NOTCH4 was highly associated with schizophrenia. Repression of Notch4 resolved ataxia and reversed the disease progression, demonstrating that Notch4 is not only sufficient to induce but also required to sustain the disease.

Images



Anti- NOTCH4 antibody, ABO11139, Western blotting
 All lanes: Anti NOTCH4 (ABO11139) at 0.5ug/ml
 Lane 1: A549 Whole Cell Lysate at 40ug
 Lane 2: SMMC Whole Cell Lysate at 40ug
 Lane 3: HELA Whole Cell Lysate at 40ug
 Predicted bind size: 210KD
 Observed bind size: 210KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.