10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-NOTCH4 Antibody
Catalog # ABO11139

Specification

Anti-NOTCH4 Antibody - 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.

Anti-NOTCH4 Antibody - 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 MW KDa

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.

Protein Name
Neurogenic locus notch homolog protein 4(Notch 4)

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of human NOTCH4(1805-1818aa DVAHQRNHWDLLTL).

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage

At -20˚C for one year. After r˚Constitution, 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.

Anti-NOTCH4 Antibody - 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

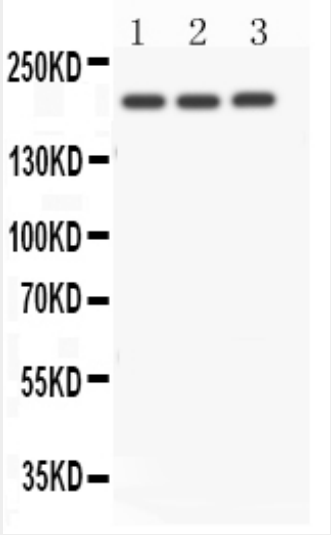
Anti-NOTCH4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-NOTCH4 Antibody - Images

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Anti- NOTCH4 antibody, ABO11139, Western blottingAll lanes: Anti NOTCH4 (ABO11139) at 0.5ug/mlLane 1: A549 Whole Cell Lysate at 40ugLane 2: SMMC Whole Cell Lysate at 40ugLane 3: HELA Whole Cell Lysate at 40ugPredicted bind size: 210KDObserved bind size: 210KD

Anti-NOTCH4 Antibody - Background

NOTCH4(NOTCH, DROSOPHILA, HOMOLOG OF, 4) also known asÂ INT3 or NOTCH3, FORMERLY, is a member of the Notch family. In situ hybridization revealed thatÂ Notch4Â transcripts are primarily restricted to endothelial cells in embryonic and adult life, suggesting a specific role forNotch4Â during development of vertebrate endothelium. The sequences of the mouse and humanÂ NOTCH4Â proteins are 82% identical.Â Northern blot analysis revealed thatÂ NOTCH4(S) is the major transcript and is expressed in a wide variety of tissues. Fluorescence in situ hybridization confirmed the location of theÂ NOTCH4Â gene at chromosome 6p21.3. In linkage disequilibrium mapping of the MHC region in 80 British parent-offspring trios,Â Wei and Hemmings(2000)Â found thatÂ NOTCH4Â was highly associated with schizophrenia. Repression ofÂ Notch4Â resolved ataxia and reversed the disease progression, demonstrating thatÂ Notch4Â is not only sufficient to induce but also required to sustain the disease.Â