

**Anti-NOTCH4 Antibody**  
**Catalog # ABO11139****Specification**

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**Anti-NOTCH4 Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">Q99466</a>
Host	<b>Rabbit</b>
Reactivity	<b>Human</b>
Clonality	<b>Polyclonal</b>
Format	<b>Lyophilized</b>

**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<br>

**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 Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**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.

**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

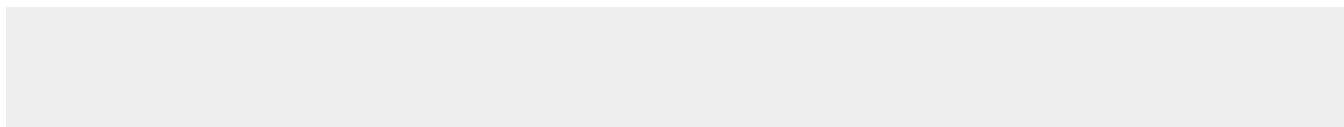
**Tissue Location**

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**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 Cytometry](#)
- [Cell Culture](#)

**Anti-NOTCH4 Antibody - 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

#### Anti-NOTCH4 Antibody - 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.