

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

Application	WB
Primary Accession	<a href="#">Q99466</a>
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<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 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

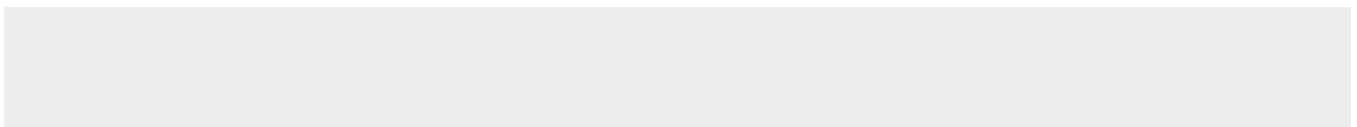
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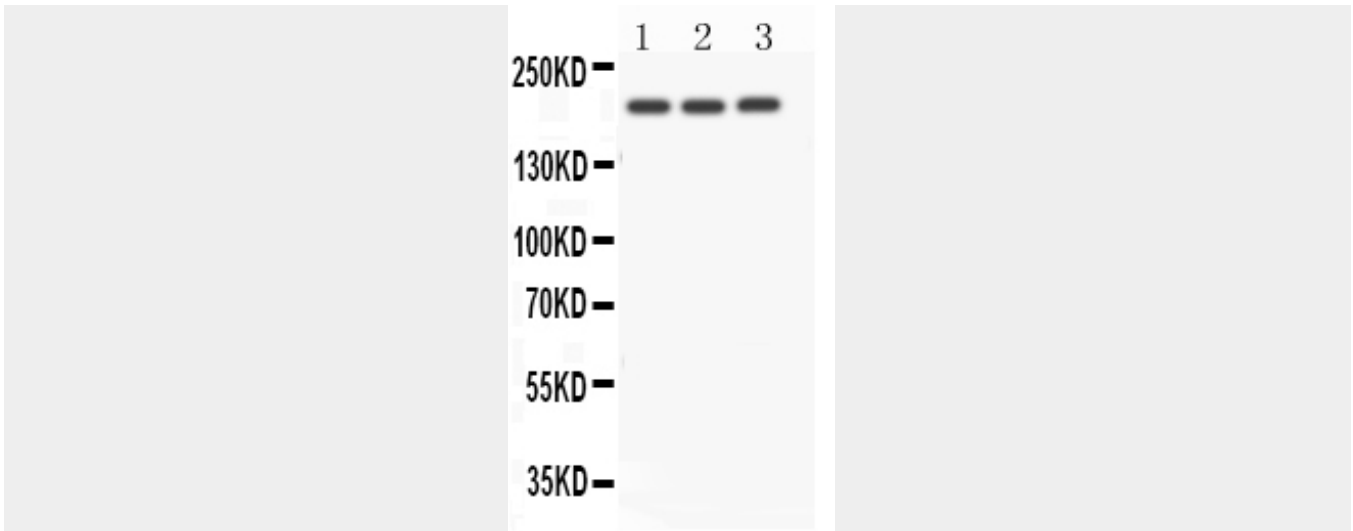
## Anti-NOTCH4 Antibody - Protocols

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.