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# Notch1 Antibody

Rabbit mAb
Catalog # AP90290

## Product Information

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|---|---|
| **Application** | WB, IHC, IF, FC, ICC, IHF |
| **Primary Accession** | P46531 |
| **Reactivity** | Human, Mouse |
| **Clonality** | Monoclonal |
| **Other Names** | NOTC1, NOTCH1, TAN1, hN1, neurogenic locus notch homolog protein 1, neurogenic locus notch homolog protein 1 precursor, |
| **Isotype** | Rabbit IgG |
| **Host** | Rabbit |
| **Calculated MW** | 272505 |

## Additional Information

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| **Dilution** | WB 1:500~1:3000 IHC 1:50~1:200 ICC/IF 1:100~1:500 FC 1:200~1:500 |
| **Purification** | Affinity-chromatography |
| **Immunogen** | A synthesized peptide derived from human Notch1 |
| **Description** | 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. Involved in angiogenesis; negatively regulates endothelial cell proliferation and migration and angiogenic sprouting. |
| **Storage Condition and Buffer** | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

## Protein Information

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|---|---|
| **Name** | NOTCH1 |
| **Synonyms** | TAN1 |
| **Function** | Functions as a receptor for membrane-bound ligands Jagged-1 (JAG1), Jagged-2 (JAG2) and Delta-1 (DLL1) 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. Involved in angiogenesis; negatively regulates endothelial cell proliferation and migration and angiogenic sprouting. Involved in the maturation of both CD4(+) and CD8(+) cells in the thymus. Important for follicular differentiation and |

possibly cell fate selection within the follicle. During cerebellar development, functions as a receptor for neuronal DNER and is involved in the differentiation of Bergmann glia. Represses neuronal and myogenic differentiation. May play an essential role in postimplantation development, probably in some aspect of cell specification and/or differentiation. May be involved in mesoderm development, somite formation and neurogenesis. May enhance HIF1A function by sequestering HIF1AN away from HIF1A. Required for the THBS4 function in regulating protective astrogenesis from the subventricular zone (SVZ) niche after injury. Involved in determination of left/right symmetry by modulating the balance between motile and immotile (sensory) cilia at the left-right organiser (LRO).

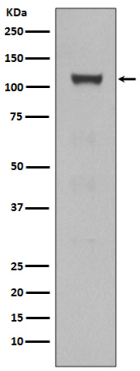
**Cellular Location**

Cell membrane; Single-pass type I membrane protein. Late endosome membrane; Single-pass type I membrane protein. Note=Non-activated receptor is targeted for lysosomal degradation via the endosomal pathway; transport from late endosomes to lysosomes requires deubiquitination by USP12.

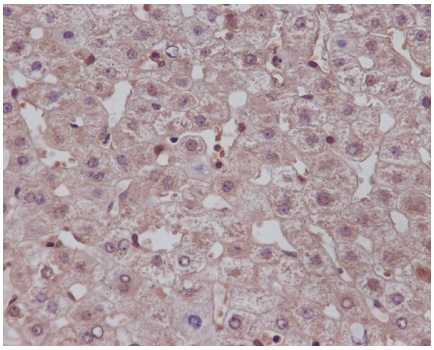
**Tissue Location**

In fetal tissues most abundant in spleen, brain stem and lung. Also present in most adult tissues where it is found mainly in lymphoid tissues

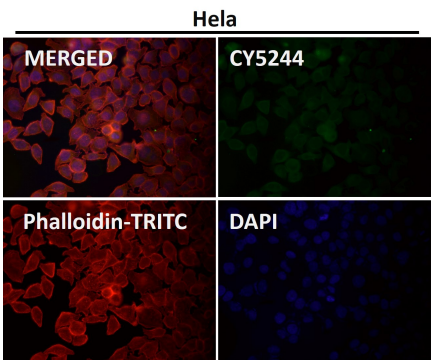
## Images




Western blot analysis of NOTCH1 expression in HEK293 cell lysate.



Immunohistochemical analysis of paraffin-embedded human liver, using Notch1 Antibody .




Immunofluorescent analysis of HeLa cells, using Notch1 Antibody .

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