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KD-Validated Anti-NOTCH1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2220

Specification

KD-Validated Anti-NOTCH1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	P46531
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 125 kDa; observed, 125 kDa KDa**
Gene Name	**NOTCH1**
Aliases	**NOTCH1; Notch Receptor 1; Notch 1; TAN1; Translocation-Associated Notch Protein TAN-1; Neurogenic Locus Notch Homolog Protein 1; HN1; Notch (Drosophila) Homolog 1 (Translocation-Associated); Notch Homolog 1, Translocation-Associated (Drosophila); Notch Homolog 1, Translocation-Associated; EC 3.4.21.68; EC 2.1.2.11; AOVD1; AOS5**
Immunogen	**A synthesized peptide derived from human Notch 1**

KD-Validated Anti-NOTCH1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**4851**

Other Names
Neurogenic locus notch homolog protein 1, Notch 1, hN1, Translocation-associated notch protein TAN-1, Notch 1 extracellular truncation, NEXT, Notch 1 intracellular domain, NICD, NOTCH1, TAN1

KD-Validated Anti-NOTCH1 Rabbit Monoclonal Antibody - Protein Information

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 {ECO:0000250|UniProtKB:Q01705}; 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 deuibiquitination by USP12.

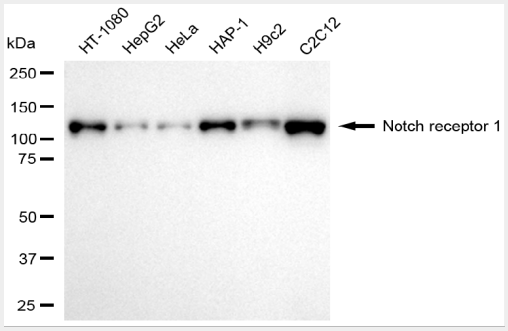
Tissue Location
In fetal tissues most abundant in spleen, brain stem and lung. Also present in most adult tissues where it is found mainly in lymphoid tissues

KD-Validated Anti-NOTCH1 Rabbit Monoclonal 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

KD-Validated Anti-NOTCH1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-notch receptor 1 antibody (Cat#AGI2220). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-notch receptor 1 antibody (Cat#AGI2220, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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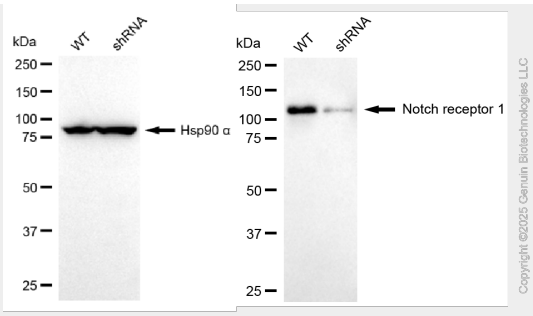
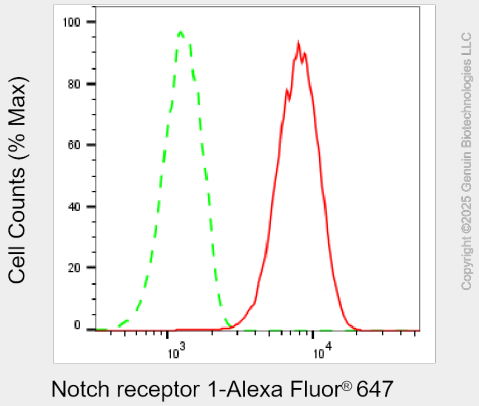


Western blotting analysis using anti-notch receptor 1 antibody (Cat#AGI2220). Notch receptor 1 expression in wild-type (WT) and notch receptor 1 (NOTCH1) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-notch receptor 1 antibody (Cat#AGI2220, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Notch receptor 1 expression in C2C12 cells using anti-Notch receptor 1 antibody (Cat#AGI2220, 1:2,000). Green, isotype control; red, Notch receptor 1.