

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
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
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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 deubiquitination by USP12.

Tissue Location

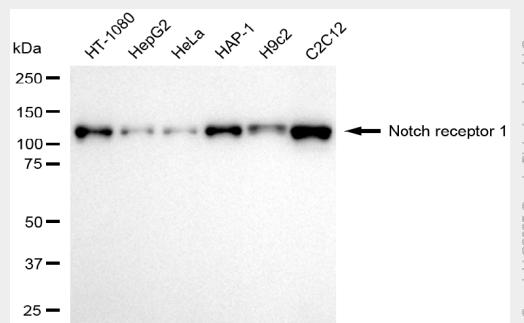
In fetal tissues most abundant in spleen, brain stem and lung. Also present in most adult tissues where it is found mainly in lymphoid tissues

KD-Validated Anti-NOTCH1 Rabbit Monoclonal Antibody - Protocols

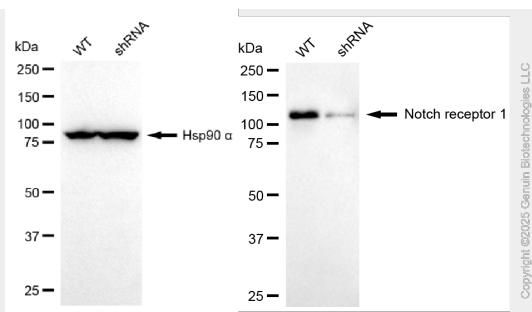
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-NOTCH1 Rabbit Monoclonal Antibody - Images

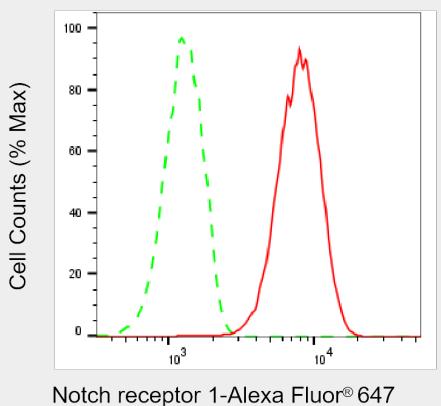


Western blotting analysis using anti-notch receptor 1 antibody (Cat#AGI2220). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-notch receptor 1 antibody (Cat#AGI2220, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody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



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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.