
Product Name: KD-Validated NOTCH1 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00378

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 272.5kDa

Antigen Information

Gene Name	NOTCH1
Alternative Names	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
Gene ID	4851.0
SwissProt ID	P46531
Immunogen	A synthesized peptide derived from human Notch 1

Background

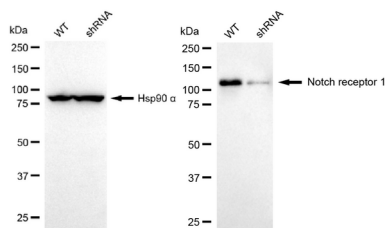
This gene encodes a member of the NOTCH family of proteins. Members of this Type I transmembrane protein family share

structural characteristics including an extracellular domain consisting of multiple epidermal growth factor-like (EGF) repeats, and an intracellular domain consisting of multiple different domain types. Notch signaling is an evolutionarily conserved intercellular signaling pathway that regulates interactions between physically adjacent cells through binding of Notch family receptors to their cognate ligands. The encoded preproprotein is proteolytically processed in the trans-Golgi network to generate two polypeptide chains that heterodimerize to form the mature cell-surface receptor. This receptor plays a role in the development of numerous cell and tissue types. Mutations in this gene are associated with aortic valve disease, Adams-Oliver syndrome, T-cell acute lymphoblastic leukemia, chronic lymphocytic leukemia, and head and neck squamous cell carcinoma. [provided by RefSeq, Jan 2016]

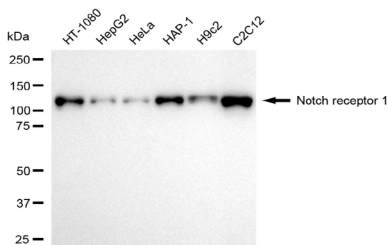
Research Area

Neuroscience, Epigenetics and Nuclear Signaling, Stem Cells, Cardiovascular, Developmental Biology

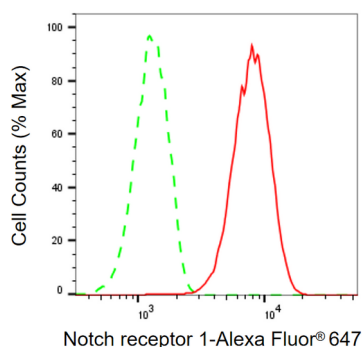
Image Data



Western blotting analysis using notch receptor 1 antibody (KVA00378). 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 notch receptor 1 antibody (KVA00378, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using notch receptor 1 antibody (KVA00378). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with notch receptor 1 antibody (KVA00378, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Flow cytometric analysis of Notch receptor 1 expression in C2C12 cells using Notch receptor 1 antibody (KVA00378, 1:2,000). Green, isotype control; red, Notch receptor 1.