Product Datasheet

Anti-NOTCH1 Antibody (orb256723)

Description	Rabbit polyclonal antibody to NOTCH1, which is also known as AOVD. NOTCH1 is frequently found in the intracellular domain of the nucleus and is expressed in the basal keratinocytes and mesencephalic ventricular zone of the neural tube. It is overexpressed in the cerebrospinal fluid. This protein extensively 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.
Species/Host	Rabbit
Reactivity	Human, Mouse, Rat
Conjugation	Unconjugated
Tested Applications	IF, IH, WB
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human NOTCH1. The exact sequence is proprietary.
Target	NOTCH1
Preservatives	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Form/Appearance	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Clonality	Polyclonal
Source	Rabbit

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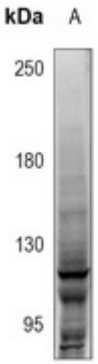
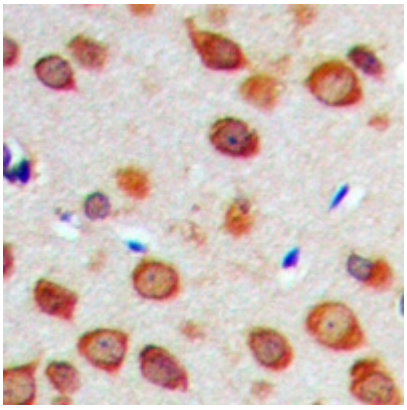
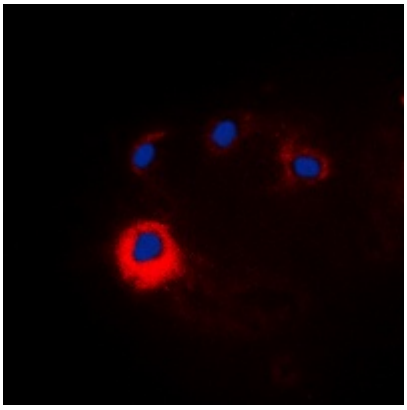
Uniprot ID	**Q07008**, **Q01705**, **P46531**
Entrez	**25496**, **18128**, **4851**
Dilution Range	WB: 1:500-1000, IHC-P: 1:100-200, IF/ICC: 1:100-500
Expiration Date	12 months from date of receipt.



Western blot analysis of NOTCH1 expression in Myla2059 (A) whole cell lysates. (Predicted band size: 272 kD; Observed band size: 120 kD)



Immunohistochemical analysis of NOTCH1 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of NOTCH1 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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