

**NOTCH3 Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6220a**

**Specification**

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**NOTCH3 Antibody (C-term) - Product Information**

Application	IF, WB, IHC-P,E
Primary Accession	<a href="#">O9UM47</a>
Reactivity	Mouse
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	2291-2321

**NOTCH3 Antibody (C-term) - Additional Information**

**Gene ID** 4854

**Other Names**

Neurogenic locus notch homolog protein 3, Notch 3, Notch 3 extracellular truncation, Notch 3 intracellular domain, NOTCH3

**Target/Specificity**

This NOTCH3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 2291-2321 amino acids from the C-terminal region of human NOTCH3.

**Dilution**

IF~~1:10~50  
WB~~1:1000  
IHC-P~~1:50~100

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**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.

**Precautions**

NOTCH3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**NOTCH3 Antibody (C-term) - Protein Information**

**Name** NOTCH3

**Function** Functions as a receptor for membrane-bound ligands Jagged1, Jagged2 and Delta1 to regulate cell-fate determination (PubMed:[15350543](#)). 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 (By similarity).

**Cellular Location**

Cell membrane; Single-pass type I membrane protein

**Tissue Location**

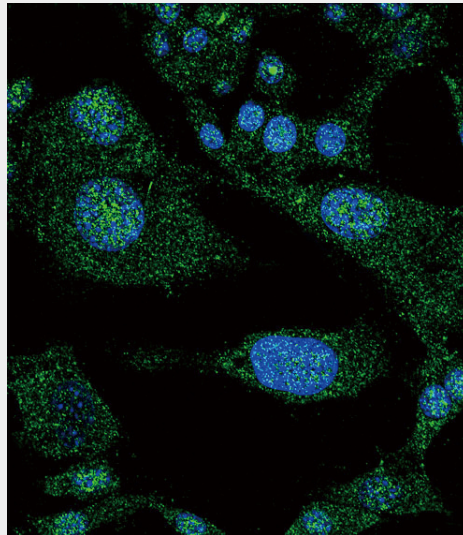
Ubiquitously expressed in fetal and adult tissues.

**NOTCH3 Antibody (C-term) - Protocols**

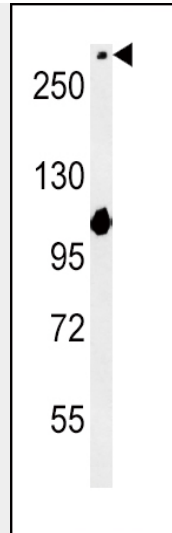
Provided below are standard protocols that you may find useful for product applications.

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

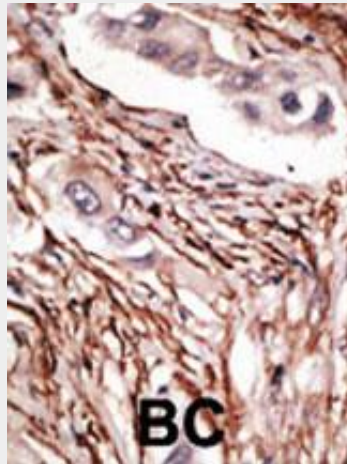
**NOTCH3 Antibody (C-term) - Images**



Confocal immunofluorescent analysis of NOTCH3 Antibody (C-term)(Cat#AP6220a) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



NOTCH3-Q2306 (Cat. #AP6220a) western blot analysis in mouse NIH-3T3 cell line lysates (15ug/lane). This demonstrates the NOTCH3 antibody detected the NOTCH3 protein (arrow).



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

### **NOTCH3 Antibody (C-term) - Background**

NOTCH3 is the third discovered human homologue of the *Drosophila melanogaster* type I membrane protein notch. In *Drosophila*, notch interaction with its cell-bound ligands (delta, serrate) establishes an intercellular signalling pathway that plays a key role in neural development. Homologues of the notch-ligands have also been identified in human, but precise interactions between these ligands and the human notch homologues remains to be determined. Mutations in NOTCH3 have been identified as the underlying cause of cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy (CADASIL).

### **NOTCH3 Antibody (C-term) - References**

Suwanwela, N., et al., *J Med Assoc Thai* 86(2):178-182 (2003). Ahearn, E.P., et al., *Am. J. Med. Genet.* 114(6):652-658 (2002). Bellavia, D., et al., *Proc. Natl. Acad. Sci. U.S.A.* 99(6):3788-3793 (2002). Ito, D., et al., *J. Neurol. Neurosurg. Psychiatr.* 72(3):382-384 (2002). Joutel, A., et al., *Lancet* 350(9090):1511-1515 (1997).

### **NOTCH3 Antibody (C-term) - Citations**

- [The Expression of Notch 1 and Notch 3 in Gallbladder Cancer and Their Clinicopathological Significance.](#)