

**NOTCH3 Antibody (C-term Q2306)**  
**Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM2059b****Specification**

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**NOTCH3 Antibody (C-term Q2306) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q9UM47</a>
Other Accession	<a href="#">NP_000426.2</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	243631
Antigen Region	2291-2321

**NOTCH3 Antibody (C-term Q2306) - 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 mice immunized with a KLH conjugated synthetic peptide between 2291-2321 amino acids from the C-terminal region of human NOTCH3.

**Dilution**

WB~~1:500~1000

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, 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 Q2306) is for research use only and not for use in diagnostic or therapeutic procedures.

**NOTCH3 Antibody (C-term Q2306) - 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

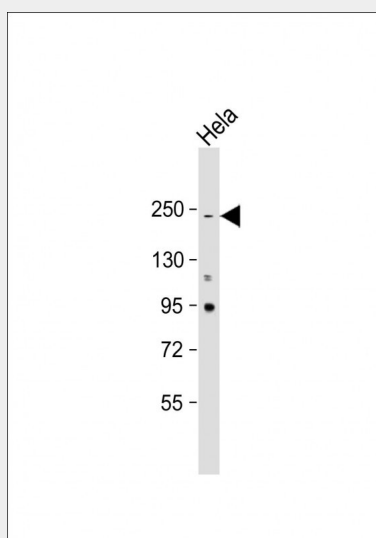
**Tissue Location**

Ubiquitously expressed in fetal and adult tissues.

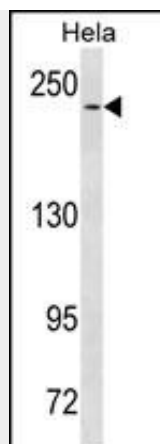
**NOTCH3 Antibody (C-term Q2306) - Protocols**

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 Q2306) - Images**

Anti-NOTCH3 Antibody at 1:2000 dilution + Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 250 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



NOTCH3 Antibody (Q2306) (Cat. #AM2059b) western blot analysis in HeLa cell line lysates (35µg/lane). This demonstrates the NOTCH3 antibody detected the NOTCH3 protein (arrow).

### **NOTCH3 Antibody (C-term Q2306) - Background**

This gene encodes 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). [provided by RefSeq].

### **NOTCH3 Antibody (C-term Q2306) - References**

Liu, H., et al. *Circ. Res.* 107(7):860-870(2010)  
Bailey, S.D., et al. *Diabetes Care* 33(10):2250-2253(2010)  
Menon, S., et al. *Cephalalgia* (2010) In press :  
Jugessur, A., et al. *PLoS ONE* 5 (7), E11493 (2010) :  
Johnatty, S.E., et al. *PLoS Genet.* 6 (7), E1001016 (2010) :