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

Specification

NOTCH3 Antibody (C-term Q2306) - Product Information

Application	**WB,E**
Primary Accession	Q9UM47
Other Accession	NP_000426.2
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~~1:2000

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

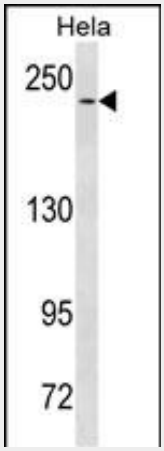
Tissue Location
Ubiquitously expressed in fetal and adult tissues.

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 Cytomety
- Cell Culture

NOTCH3 Antibody (C-term Q2306) - Images



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).

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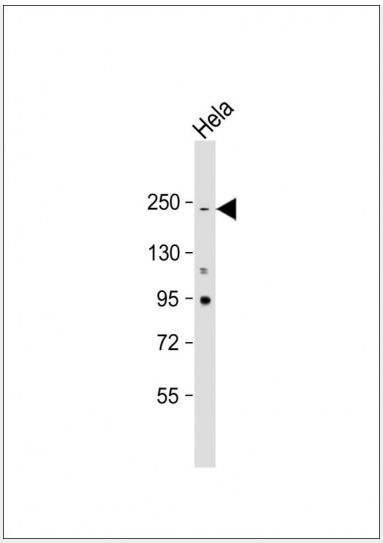

Anti-NOTCH3 Antibody at 1:2000 dilution + Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 250 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

NOTCH3 Antibody (C-term Q2306) - Background

This gene encodes the third discovered human homologue of the Drosophilia melanogaster type I membrane protein notch. In Drosophilia, 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) :