10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

APH1A Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP19161A

Specification

APH1A Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q96BI3
Other Accession	Q8BVF7, NP_057106.2
Reactivity	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**28996**
Antigen Region	**41-70**

APH1A Antibody (N-term) - Additional Information

Gene ID 51107

Other Names
Gamma-secretase subunit APH-1A, APH-1a, Aph-1alpha, Presenilin-stabilization factor, APH1A, PSF

Target/Specificity
This APH1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 41-70 amino acids from the N-terminal region of human APH1A.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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
APH1A Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

APH1A Antibody (N-term) - Protein Information

Name APH1A

Synonyms PSF

Function Non-catalytic subunit of the gamma-secretase complex, an endoprotease complex that catalyzes the intramembrane cleavage of integral membrane proteins such as Notch receptors and APP (amyloid- beta precursor protein) (PubMed:12297508, PubMed:12522139, PubMed:12679784, PubMed:12763021, PubMed:25043039, PubMed:26280335, PubMed:30598546, PubMed:30630874). Required for normal gamma-secretase assembly (PubMed:12471034, PubMed:12522139, PubMed:12763021, PubMed:19369254). The gamma-secretase complex plays a role in Notch and Wnt signaling cascades and regulation of downstream processes via its role in processing key regulatory proteins, and by regulating cytosolic CTNNB1 levels (Probable).

Cellular Location
Endoplasmic reticulum membrane; Multi-pass membrane protein. Golgi apparatus, Golgi stack membrane; Multi-pass membrane protein. Note=Predominantly located in the endoplasmic reticulum and in the cis-Golgi

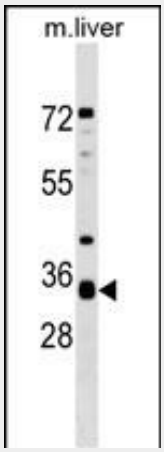
Tissue Location
Widely expressed. Expressed in leukocytes, lung, placenta, small intestine, liver, kidney, spleen thymus, skeletal muscle, heart and brain. Isoform 1 and isoform 2 are nearly expressed at the same level.

APH1A Antibody (N-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 Cytomety
- Cell Culture

APH1A Antibody (N-term) - Images



APH1A Antibody (N-term) (Cat. #AP19161a) western blot analysis in mouse liver tissue lysates (35ug/lane).This demonstrates the APH1A antibody detected the APH1A protein (arrow).

APH1A Antibody (N-term) - Background

APH1 is a multipass transmembrane protein that interacts with presenilin (see PSEN1; MIM 104311) and nicastrin (APH2; MIM 605254) as a functional component of the gamma-secretase complex. The gamma-secretase complex is required for the intramembrane proteolysis of a number of membrane proteins, including the amyloid-beta precursor protein (APP; MIM 104760) and Notch (MIM 190198).

APH1A Antibody (N-term) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Mitsuishi, Y., et al. J. Biol. Chem. 285(20):14920-14931(2010)
Chen, A.C., et al. J. Biol. Chem. 285(15):11378-11391(2010)
Pardossi-Piquard, R., et al. J. Biol. Chem. 284(24):16298-16307(2009)
Wang, Y., et al. Neurosci. Lett. 455(2):101-104(2009)