

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 Ig
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

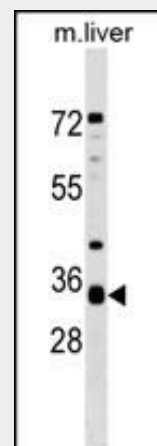
Format

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) (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.

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

284(24):16298-16307(2009)
Wang, Y., et al. Neurosci. Lett.
455(2):101-104(2009)

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:12763021, PubMed:12679784, PubMed:25043039, PubMed:26280335, PubMed:30598546, PubMed:30630874). Required for normal gamma-secretase assembly (PubMed:12522139, PubMed:12471034, 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 Cytometry](#)
- [Cell Culture](#)