

APH1A Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP19161a**Specification**

APH1A Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q96BI3](#)**APH1A Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 51107**Other Names**

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

APH1A Antibody (N-term) Blocking Peptide - 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](http://www.uniprot.org/citations/12297508), PubMed: [12522139](http://www.uniprot.org/citations/12522139), PubMed: [12679784](http://www.uniprot.org/citations/12679784), PubMed: [12763021](http://www.uniprot.org/citations/12763021), PubMed: [25043039](http://www.uniprot.org/citations/25043039), PubMed: [26280335](http://www.uniprot.org/citations/26280335), PubMed: [30598546](http://www.uniprot.org/citations/30598546), PubMed: [30630874](http://www.uniprot.org/citations/30630874)). Required for normal gamma-secretase assembly (PubMed: [12471034](http://www.uniprot.org/citations/12471034), PubMed: [12522139](http://www.uniprot.org/citations/12522139), PubMed: [12763021](http://www.uniprot.org/citations/12763021), PubMed: [19369254](http://www.uniprot.org/citations/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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

APH1A Antibody (N-term) Blocking Peptide - Images**APH1A Antibody (N-term) Blocking Peptide - Background**

APH1 is a multipass transmembrane protein that interacts with presenilin (see PSEN1; MIM 104311) and nicastrin (APH2; MIM605254) 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 (MIM190198).

APH1A Antibody (N-term) Blocking Peptide - 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)