

APH1A / APH-1 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS11658**Specification**

APH1A / APH-1 Antibody (Internal) - Product Information

Application	IHC
Primary Accession	Q96BI3
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	29kDa KDa

APH1A / APH-1 Antibody (Internal) - Additional Information**Gene ID** 51107**Other Names**

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

Target/Specificity

18 amino acid peptide from near the center of human APH1a.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

APH1A / APH-1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

APH1A / APH-1 Antibody (Internal) - 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: [12763021](http://www.uniprot.org/citations/12763021), PubMed: [12679784](http://www.uniprot.org/citations/12679784), 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: [30630874](#)).

href="http://www.uniprot.org/citations/12522139" target="_blank">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

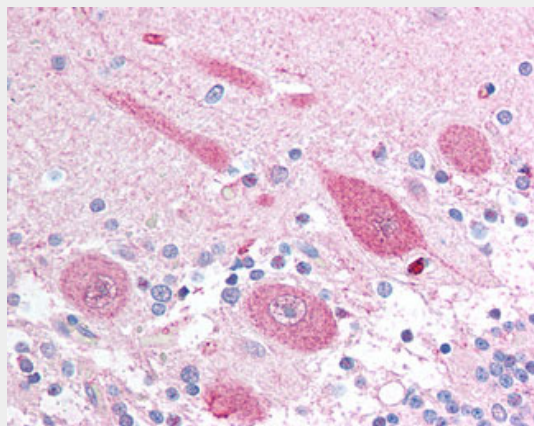
Tissue Location

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 / APH-1 Antibody (Internal) - 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](#)

APH1A / APH-1 Antibody (Internal) - Images

Anti-APH1A antibody IHC of human brain, cerebellum.

APH1A / APH-1 Antibody (Internal) - Background

Essential subunit of the gamma-secretase complex, an endoprotease complex that catalyzes the intramembrane cleavage of integral proteins such as Notch receptors and APP (beta-amyloid precursor protein). It probably represents a stabilizing cofactor for the presenilin homodimer that promotes the formation of a stable complex.

APH1A / APH-1 Antibody (Internal) - References

Lee S.-F.,et al.J. Biol. Chem. 277:45013-45019(2002).
Lee H.-J.,et al.Submitted (MAY-2002) to the EMBL/GenBank/DDBJ databases.
Lai C.-H.,et al.Genome Res. 10:703-713(2000).
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).