

PSEN2 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20599a

Specification

PSEN2 Antibody (N-term) - Product Information

Application	WB, FC,E
Primary Accession	P49810
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	50140

PSEN2 Antibody (N-term) - Additional Information

Gene ID 5664

Other Names

Presenilin-2, PS-2, 3423-, AD3LP, AD5, E5-1, STM-2, Presenilin-2 NTF subunit, Presenilin-2 CTF subunit, PSEN2, AD4, PS2, PSNL2, STM2

Target/Specificity

This PSEN2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 32-65 amino acids from the N-terminal region of human PSEN2(Presenilin-2 NTF subunit).

Dilution

WB~~1:1000

FC~~1:25

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

PSEN2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PSEN2 Antibody (N-term) - Protein Information

Name PSEN2

Synonyms AD4, PS2, PSNL2, STM2

Function Probable 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). Requires the other members of the gamma-secretase complex to have a protease activity. May play a role in intracellular signaling and gene expression or in linking chromatin to the nuclear membrane. May function in the cytoplasmic partitioning of proteins. The holoprotein functions as a calcium-leak channel that allows the passive movement of calcium from endoplasmic reticulum to cytosol and is involved in calcium homeostasis (PubMed:[16959576](#)). Is a regulator of mitochondrion-endoplasmic reticulum membrane tethering and modulates calcium ions shuttling between ER and mitochondria (PubMed:[21285369](#)).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein

Tissue Location

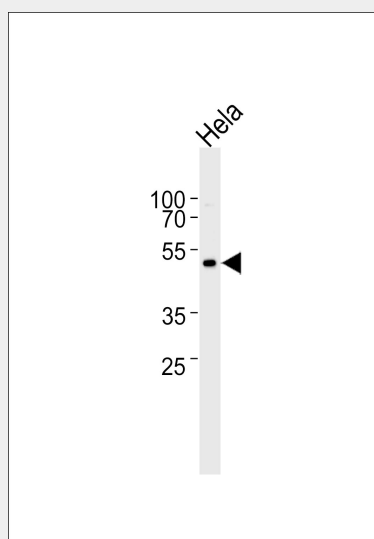
Isoform 1 is seen in the placenta, skeletal muscle and heart while isoform 2 is seen in the heart, brain, placenta, liver, skeletal muscle and kidney.

PSEN2 Antibody (N-term) - Protocols

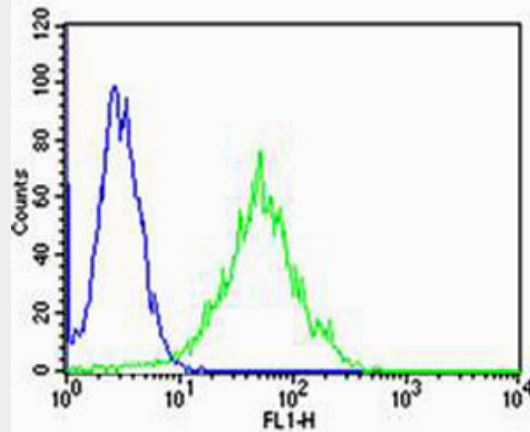
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PSEN2 Antibody (N-term) - Images



Western blot analysis of lysate from HeLa cell line, using PSEN2(Presenilin-2 NTF subunit) Antibody (N-term)(Cat. # AP20599a). AP20599a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.



Flow cytometric analysis of HeLa cells using PSEN2(Presenilin-2 NTF subunit) Antibody (N-term)(green, Cat#AP20599a) compared to an isotype control of rabbit IgG(blue). AP20599a was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody.

PSEN2 Antibody (N-term) - Background

Probable 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 (beta-amyloid precursor protein). Requires the other members of the gamma-secretase complex to have a protease activity. May play a role in intracellular signaling and gene expression or in linking chromatin to the nuclear membrane. May function in the cytoplasmic partitioning of proteins.

PSEN2 Antibody (N-term) - References

- Levy-Lahad E., et al. *Science* 269:973-977(1995).
- Rogaev E.I., et al. *Nature* 376:775-778(1995).
- Li J., et al. *Proc. Natl. Acad. Sci. U.S.A.* 92:12180-12184(1995).
- Levy-Lahad E., et al. *Genomics* 34:198-204(1996).
- Kalnina N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.