

PSENEN / PEN-2 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS12686**Specification**

PSENEN / PEN-2 Antibody (N-Terminus) - Product Information

Application	WB, IHC-P, IF, E
Primary Accession	O9NZ42
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	12kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A IF~~1:50~200 E~~N/A

PSENEN / PEN-2 Antibody (N-Terminus) - Additional Information**Gene ID** 55851**Other Names**

Gamma-secretase subunit PEN-2, Presenilin enhancer protein 2, PSENEN, PEN2

Target/Specificity

13 amino acid peptide from near the amino terminus of human PEN2

Reconstitution & Storage

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

Precautions

PSENEN / PEN-2 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

PSENEN / PEN-2 Antibody (N-Terminus) - Protein Information**Name** PSENEN**Synonyms** PEN2**Function**

Essential 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:12522139, PubMed:12679784, PubMed:12740439, PubMed:12763021, PubMed:24941111)

target="_blank">24941111, PubMed:30598546, PubMed:30630874). 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). PSENEN modulates both endoproteolysis of presenilin and gamma-secretase activity (PubMed:12522139, PubMed:12679784, PubMed:12740439, PubMed:12763021, PubMed:24941111).

Cellular Location

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

Tissue Location

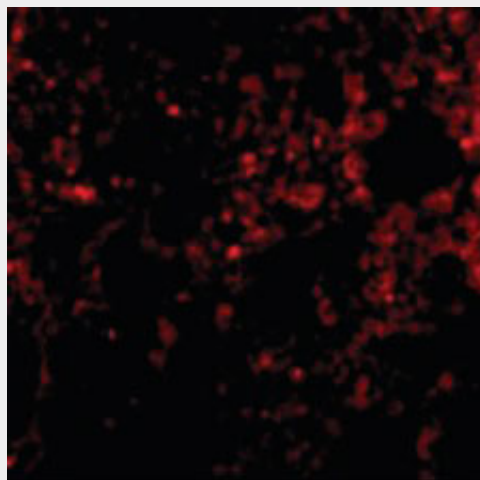
Widely expressed. Expressed in leukocytes, lung, placenta, small intestine, liver, kidney, spleen thymus, skeletal muscle, heart and brain.

PSENEN / PEN-2 Antibody (N-Terminus) - Protocols

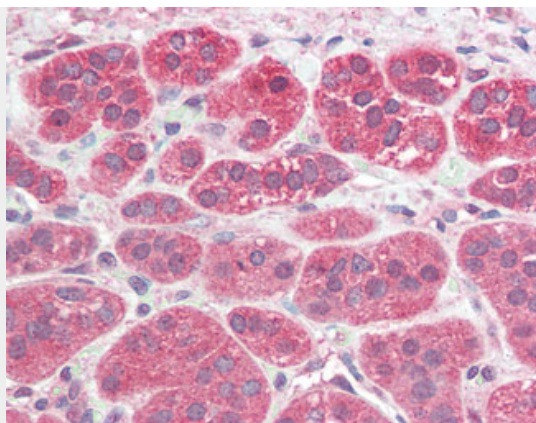
Provided below are standard protocols that you may find useful for product applications.

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

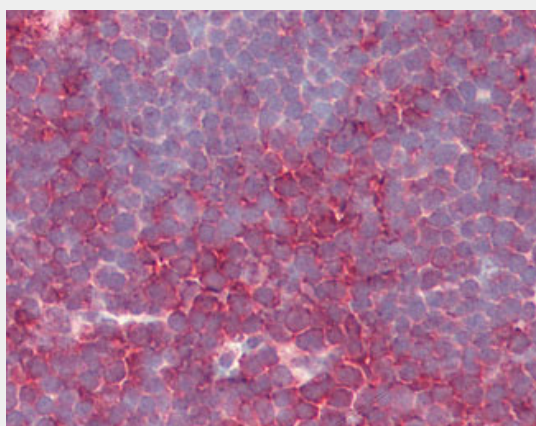
PSENEN / PEN-2 Antibody (N-Terminus) - Images



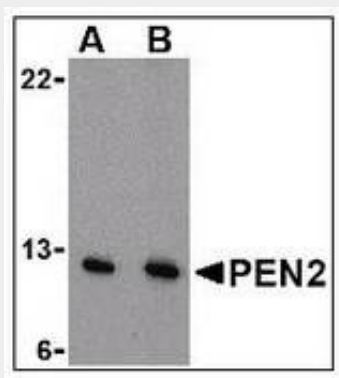
Immunofluorescence of PEN2 in Rat Lung cells with PEN2 antibody at 20 ug/ml.



Anti-PEN2 antibody IHC of human adrenal.



Anti-PEN2 antibody IHC of human thymus.



Western blot of PEN2 in A-20 cell lysate with ALS12686 at (A) 0.5 and (B) 1 ug/ml.

PSENEN / PEN-2 Antibody (N-Terminus) - Background

Essential 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). Probably represents the last step of maturation of gamma-secretase, facilitating endoproteolysis of presenilin and conferring gamma-secretase activity.

PSENEN / PEN-2 Antibody (N-Terminus) - References

Zhao M.,et al.Submitted (DEC-1999) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).

Steiner H.,et al.J. Biol. Chem. 277:39062-39065(2002).
Francis R.,et al.Dev. Cell 3:85-97(2002).
Luo W.-J.,et al.J. Biol. Chem. 278:7850-7854(2003).