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

Specification

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

Application	**IF, IHC, WB**
Primary Accession	Q9NZ42
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**12kDa KDa**

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:12763021, PubMed:12740439, PubMed:12679784, PubMed: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:12763021, PubMed:12740439, PubMed:12679784, 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.

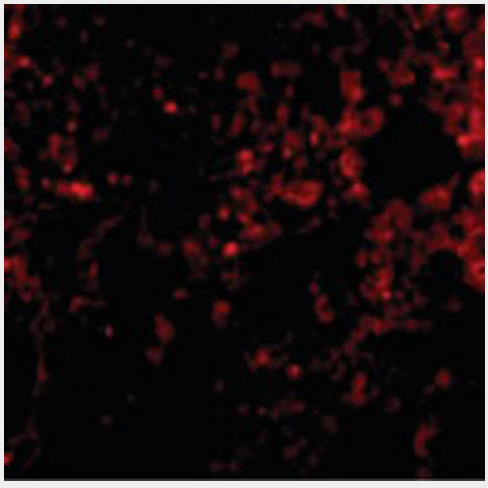
Tissue Location
Widely expressed. Expressed in leukocytes, lung, placenta, small intestine, liver, kidney, spleen thymus, skeletal muscle, heart and brain.

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

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

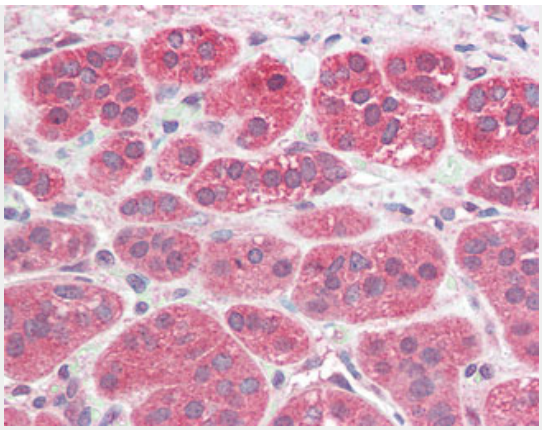
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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

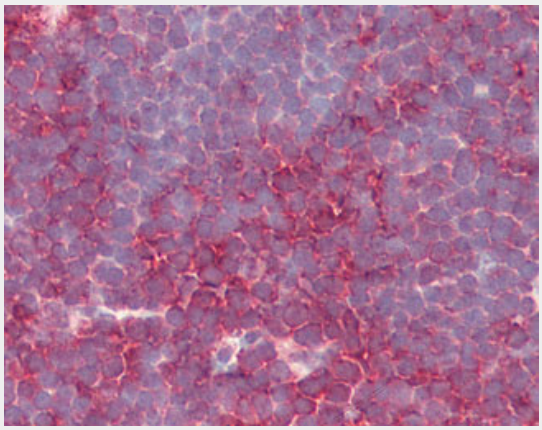


Immunofluorescence of PEN2 in Rat Lung cells with PEN2 antibody at 20 ug/ml.

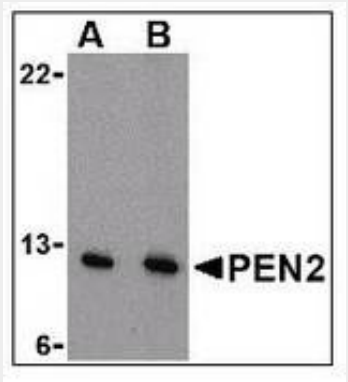
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Anti-PEN2 antibody IHC of human adrenal.



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).