

**PEN2 Antibody**  
**Rabbit mAb**  
**Catalog # AP92028****Specification**

---

**PEN2 Antibody - Product Information**

|                       |                        |
|-----------------------|------------------------|
| Application           | WB, IHC, FC, ICC       |
| Primary Accession     | <a href="#">O9NZ42</a> |
| Reactivity            | Rat                    |
| Clonality             | Monoclonal             |
| <b>Other Names</b>    |                        |
| PEN 2; PSEN2; psenen; |                        |

|               |            |
|---------------|------------|
| Isotype       | Rabbit IgG |
| Host          | Rabbit     |
| Calculated MW | 12029 Da   |

**PEN2 Antibody - Additional Information**

|                              |                                                                                                                                                                                                                     |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dilution                     | WB~~1:1000<br>IHC~~1:100~500<br>FC~~1:10~50<br>ICC~~N/A                                                                                                                                                             |
| Purification                 | Affinity-chromatography                                                                                                                                                                                             |
| Immunogen                    | A synthesized peptide derived from human PEN2                                                                                                                                                                       |
| Description                  | 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). |
| Storage Condition and Buffer | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.                                   |

**PEN2 Antibody - 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:<a href="http://www.uniprot.org/citations/12522139" target="\_blank">12522139</a>, PubMed:<a href="http://www.uniprot.org/citations/12679784"

target="\_blank">12679784</a>, PubMed:<a href="http://www.uniprot.org/citations/12740439" target="\_blank">12740439</a>, PubMed:<a href="http://www.uniprot.org/citations/12763021" target="\_blank">12763021</a>, PubMed:<a href="http://www.uniprot.org/citations/24941111" target="\_blank">24941111</a>, PubMed:<a href="http://www.uniprot.org/citations/30598546" target="\_blank">30598546</a>, PubMed:<a href="http://www.uniprot.org/citations/30630874" target="\_blank">30630874</a>). 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:<a href="http://www.uniprot.org/citations/12522139" target="\_blank">12522139</a>, PubMed:<a href="http://www.uniprot.org/citations/12679784" target="\_blank">12679784</a>, PubMed:<a href="http://www.uniprot.org/citations/12740439" target="\_blank">12740439</a>, PubMed:<a href="http://www.uniprot.org/citations/12763021" target="\_blank">12763021</a>, PubMed:<a href="http://www.uniprot.org/citations/24941111" target="\_blank">24941111</a>).

### 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

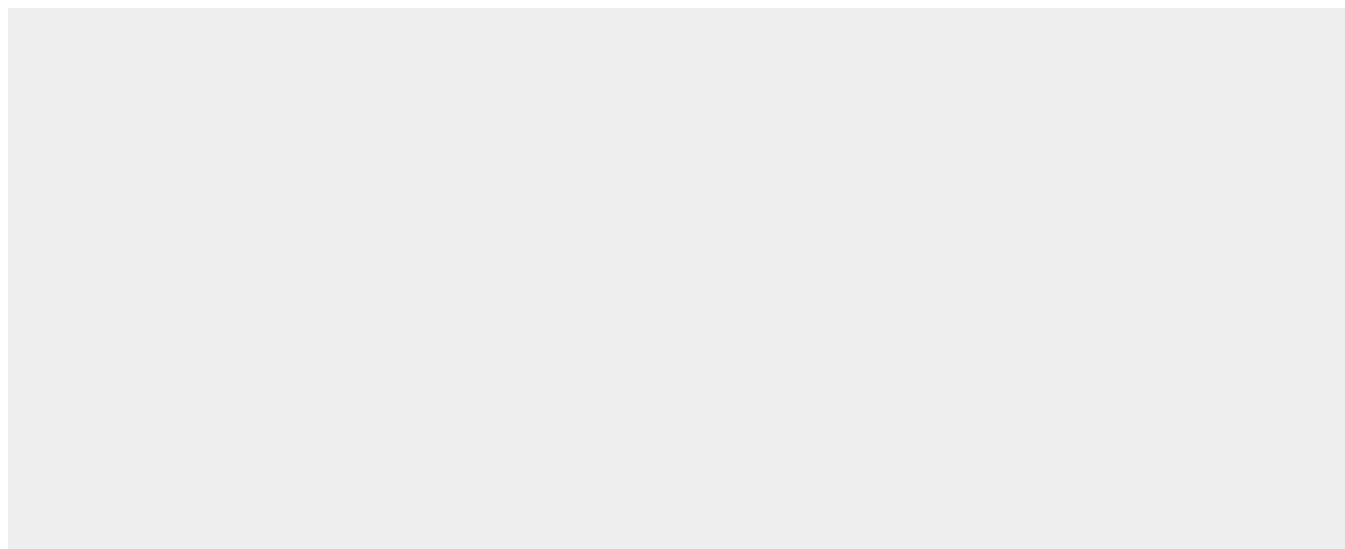
Widely expressed. Expressed in leukocytes, lung, placenta, small intestine, liver, kidney, spleen thymus, skeletal muscle, heart and brain.

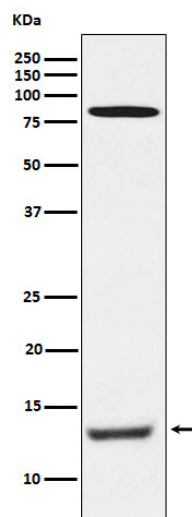
### PEN2 Antibody - Protocols

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](#)

### PEN2 Antibody - Images





Western blot analysis of PEN2 expression in Human placenta lysate.