

**Presenilin 2 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10351****Specification**

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**Presenilin 2 Antibody - Product Information**

Application	WB, IHC, IP
Primary Accession	<a href="#">P49810</a>
Other Accession	<a href="#">NP_036618</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	50140

**Presenilin 2 Antibody - Additional Information****Gene ID** 5664

Application & Usage	Western blotting (2-4 µg/ml), immunoprecipitation (20 µg/ml), and Immunohistochemistry (20 µg/ml). However, the optimal concentrations should be determined individually. The antibody recognizes Presenilin 2 of human, mouse, and rat origins. Reactivity to other species has not been tested.
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**Other Names**  
PSEN1**Target/Specificity**  
Presenilin 2**Antibody Form**  
Liquid**Appearance**  
Colorless liquid**Formulation**  
100 µg (0.5 mg/ml) peptide affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 50% glycerol, 1% BSA, and 0.02% thimerosal.**Handling**  
The antibody solution should be gently mixed before use.**Reconstitution & Storage**  
-20 °C**Background Descriptions**

**Precautions**

Presenilin 2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Presenilin 2 Antibody - 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:<a href="http://www.uniprot.org/citations/16959576" target="\_blank">16959576</a>). Is a regulator of mitochondrion-endoplasmic reticulum membrane tethering and modulates calcium ions shuttling between ER and mitochondria (PubMed:<a href="http://www.uniprot.org/citations/21285369" target="\_blank">21285369</a>).

**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.

**Presenilin 2 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](#)

**Presenilin 2 Antibody - Images****Presenilin 2 Antibody - Background**

Presenilin 1 and presenilin 2 are transmembrane proteins belonging to the presenilin family. Mutation of presenilin genes has been linked to early onset of Alzheimer's disease, probably functioning through its associated g-secretase activity for amyloid- $\beta$  protein processing. Endogenous presenilin mainly exists in a heterodimeric complex formed from the

endoproteolytically processed N-terminal (34 kDa) and C-terminal (~20 kDa) fragments.