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# Presenilin 2/AD5 Rabbit mAb

Catalog # AP74834

## Product Information

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|---|---|
| **Application** | WB, IHC-P, FC, IP |
| **Primary Accession** | P49810 |
| **Reactivity** | Rat, Human, Mouse |
| **Host** | Rabbit |
| **Clonality** | Monoclonal Antibody |
| **Isotype** | IgG |
| **Conjugate** | Unconjugated |
| **Purification** | Affinity Purified |
| **Calculated MW** | 50140 |

## Additional Information

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| **Gene ID** | 5664 |
| **Other Names** | PSEN2 |
| **Dilution** | WB~~1:1000-1:5000 IHC-P~~N/A FC~~1:20-1:50 IP~~1:20 |
| **Format** | Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA. |
| **Storage** | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |

## Protein Information

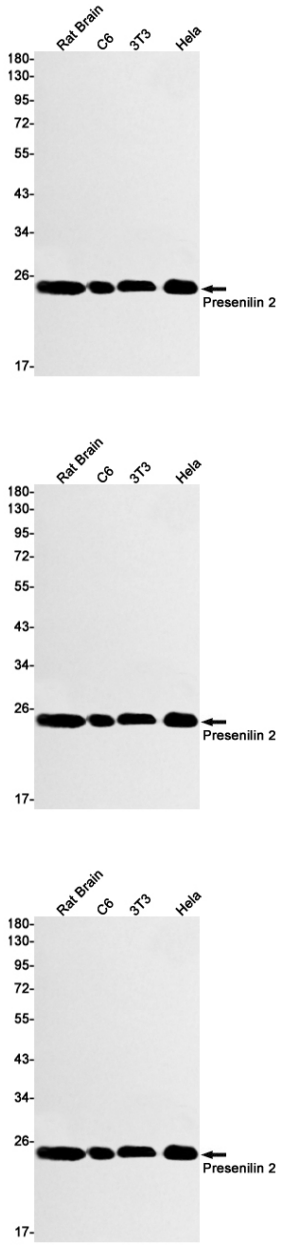
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|---|---|
| **Name** | PSEN2 ( HGNC:9509) |
| **Function** | Catalytic subunit of the gamma-secretase complex, an endoprotease complex that catalyzes the intramembrane cleavage of integral membrane proteins such as Notch receptors and APP (amyloid- beta precursor protein) (PubMed:10497236, PubMed:10652302, PubMed:16752394, PubMed:27293189, PubMed:36272978). Selectively cleaves late endosomal/lysosomal localized substrates and generates the prominent pool of intracellular amyloid beta that contains longer amyloid beta (PubMed:27293189). 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 |

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| | apparatus membrane; Multi-pass membrane protein. Late endosome membrane. Lysosome membrane. Note=Late endosome/lysosome localization is dependent of the phosphorylation-mediated interaction with the AP1G1 (PubMed:27293189). Also highly enriched in mitochondria-associated endoplasmic reticulum membrane contact site (By similarity) {ECO:0000250\|UniProtKB:Q61144, ECO:0000269\|PubMed:27293189} |
| **Tissue Location** | [Isoform 1]: Expressed in the placenta, skeletal muscle and heart (PubMed:8574969). Expressed in the somatodendritic compartment of hippocampal neurons (PubMed:27293189) |

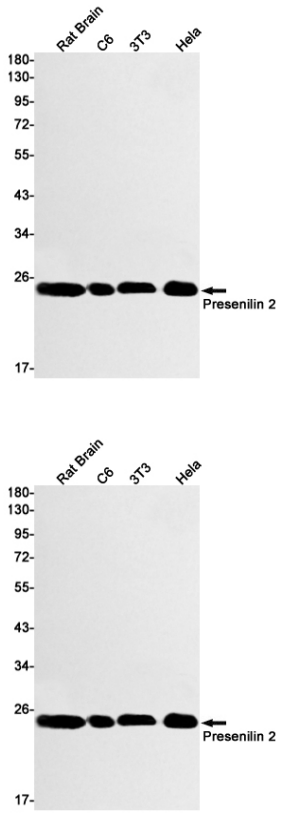
## Background

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 (amyloid-beta precursor protein).

## Images




Western blot analysis of Presenilin 2 in rat Brain, C6, 3T3, Hela lysates using Presenilin 2 antibody.







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