

Presenilin 2/AD5 Rabbit mAb

Catalog # AP74834

Product Information

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

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

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

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}

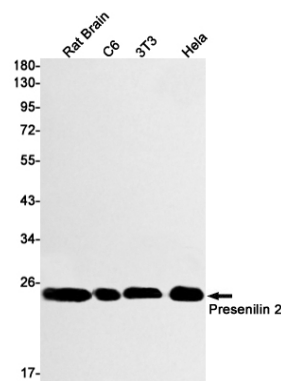
Tissue Location

[Isoform 1]: Expressed in the placenta, skeletal muscle and heart (PubMed:8574969). Expressed in the somatodendritic compartment of hippocampal neurons (PubMed:27293189)

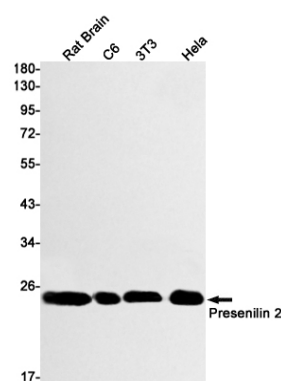
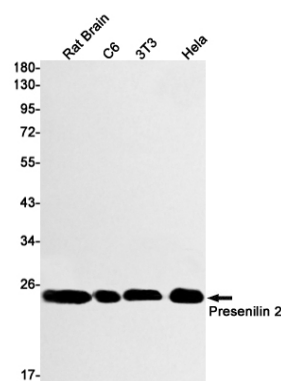
Background

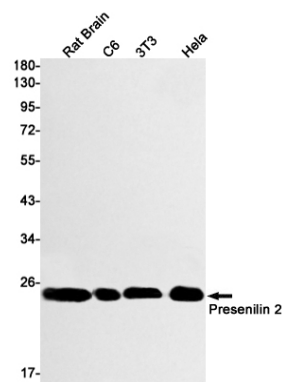
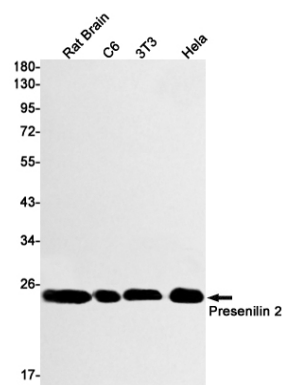
Probable catalytic subunit of the gamma-secretase complex, an endoprotease complex that catalyzes the intramembrane cleavage of integral membrane proteins such as Notch receptors and APP (amyloid-beta precursor protein).

Images



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





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