

Product datasheet for **TA306424**

Presenilin 1 (PSEN1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 0.5 - 2 ug/mL, ICC: 2.5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Presenilin1 antibody was raised against a 23 amino acid peptide from near the carboxy terminus of human presenilin1.
Formulation:	PBS containing 0.02% sodium azide.
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	presenilin 1
Database Link:	NP_000012 Entrez Gene 19164 Mouse Entrez Gene 29192 Rat Entrez Gene 5663 Human P49768



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Background:

Presenilin1 was initially identified a marker of susceptibility to early-onset Alzheimer's disease. In addition to PEN2, nicastrin and APH-1, Presenilin1 forms the g-secretase protein complex, a membrane-bound aspartyl protease that can cleave certain proteins at peptide bonds buried within the hydrophobic environment of the lipid bilayer. This cleavage is responsible for a key step in signaling from several cell-surface receptors and is thought to be required for the generation of the neurotoxic amyloid peptides that are central to the pathogenesis of Alzheimer's disease. Like the tumor necrosis factor- α -converting enzyme (TACE) and the b-site cleavage enzyme (BACE) protease families, g-secretase will cleave the amyloid precursor protein (APP), but within the intramembrane region of APP, resulting in either the non-toxic p3 (from the a and g cleavage site) or the toxic Ab amyloid peptide (from the b and g cleavage site). It is thought that accumulation of the Ab peptide is the precursor to Alzheimer's disease. Multiple isoforms of presenilin1 are known to exist. This antibody has no cross-reactivity to presenilin2.

Synonyms:

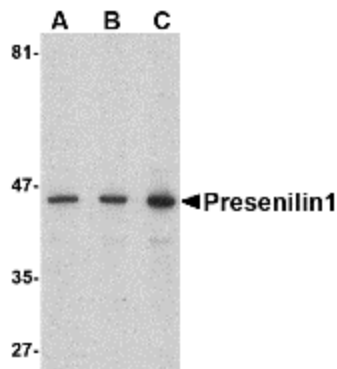
AD3; FAD; PS-1; PS1; S182

Protein Families:

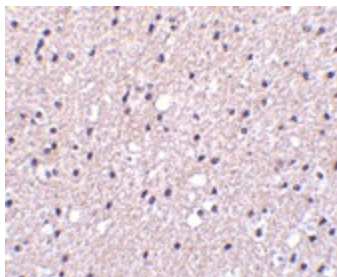
Druggable Genome, Protease, Transmembrane

Protein Pathways:

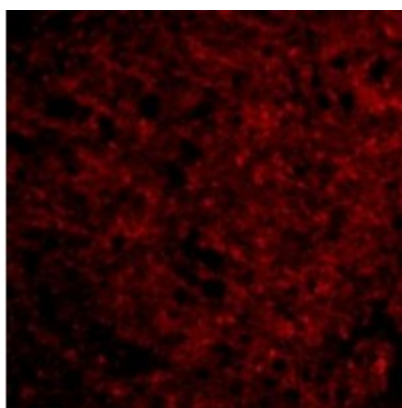
Alzheimer's disease, Neurotrophin signaling pathway, Notch signaling pathway, Wnt signaling pathway

Product images:

Western blot analysis of presenilin1 in human brain lysate with presenilin1 antibody at (A) 0.5, (B) 1, and (C) 2 ug/ml.



Immunohistochemistry of Presenilin1 in human brain tissue with Presenilin1 antibody at 2.5 ug/ml.



Immunofluorescence of Presenilin1 in Human Brain cells with Presenilin1 antibody at 20 ug/mL.