

Rabbit Presenilin 2 Polyclonal Antibody | anti-Presenilin2 antibody

Phospho-Presenilin 2 (Ser330) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329676	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)	ELISA, Western Blot

PRODUCT SYNONYMS

Presenilin 2; Polyclonal Antibody; Phospho-Presenilin 2 (Ser330) Antibody; AD3L; AD3LP; AD4; AD5; Alzheimer disease 4; CMD1V; E5-1; OTTHUMP00000035671; OTTHUMP00000035672; OTTHUMP00000228286; OTTHUMP00000228288; Presenilin 2 (Alzheimer disease 4); Presenilin-2 CTF subunit; PS-2; PS2; Psen2; PSN2_HUMAN; PSNL2; STM-2; STM2; anti-Presenilin2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-Presenilin 2 (Ser330) Antibody detects endogenous levels of Presenilin 2 only when phosphorylated at Ser330. Tissue Specificity: 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.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-Presenilin2 antibody	ELISA (Peptide ELISA), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Presenilin 2 around the phosphorylation site of Ser330.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Heterogeneous proteolytic processing generates N-terminal and C-terminal fragments. Phosphorylated on serine residues.
Subunit Structure	Interacts with DOCK3 (By similarity). Homodimer. Component of the gamma-secretase complex, a complex composed of a presenilin homodimer (PSEN1 or PSEN2), nicastrin (NCSTN), APH1 (APH1A or APH1B) and PEN2. Such minimal complex is sufficient for secretase activity, although other components may exist. Interacts with HERPUD1, FLNA, FLNB and PARL.
Similarity	The PAL motif is required for normal active site conformation. Belongs to the peptidase A22A family.
Subcellular Location	Endoplasmic reticulum membrane>Multi-pass membrane protein. Golgi apparatus membrane>Multi-pass membrane protein.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Presenilin 2 (Phospho-Ser330) using UV treated NIH-3T3 whole cell lysates. -/+ means absence or presence of N peptide½non-phospho peptide) and P peptide(phospho peptide).



WB (Western Blot)

Western blot analysis of extracts from Mouse kidney, using Phospho-Presenilin 2 (Ser330) Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-Presenilin2 antibody	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. Is a regulator of mitochondrion-endoplasmic reticulum membrane tethering and modulates calcium ions shuttling between ER and mitochondria.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	156105681
NCBI GeneID	5664
NCBI Accession #	NP_036618.2
NCBI GenBank Nucleotide #	NM_012486.2
UniProt Accession #	P49810; Q96P32; A8K8D4; B1AP21
Molecular Weight	50,140 Da
NCBI Official Full Name	presenilin-2 isoform 2
NCBI Official Synonym Full Names	presenilin 2 (Alzheimer disease 4)
NCBI Official Symbol	PSEN2
NCBI Official Synonym Symbols	AD4; PS2; AD3L; STM2; CMD1V
NCBI Protein Information	presenilin-2; AD5; E5-1; PS-2; AD3LP; STM-2
UniProt Protein Name	Presenilin-2
UniProt Gene Name	PSEN2
UniProt Synonym Gene Names	AD4; PS2; PSNL2; STM2; PS-2
UniProt Entry Name	PSN2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.