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PRODUCT DATASHEET

Anti-Presenilin-1 (PS-1) Antibody

Product Details

Available Variants	500 µL (SKU:C-1534-500)
Conjugate	Unconjugated
Isotype	IgY
Host Species	Chicken
Format	Affinity-purified
Physical State	Liquid
Buffer	PBS with 0.02% sodium azide.
Applications	ELISA, WB
Dilution Ranges	WB: 1:1000-1:4000 ELISA: 1:1000-1:4000
Species Reactivity	Human, Mouse, Rat
Immunogen	Mixture of two human Presenilin 1 peptides (311-322 and 341-352 aa). Both sequences are highly conserved in human, mouse and rat.
Specificity	Human Presenilin 1.
Storage	Short term storage at 2-8°C for one week. At -20°C as an undiluted liquid for up to 12 months.
UniProt ID	P49768 UniProt Summary: 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 presence of the other members of the gamma-secretase complex for protease activity. Plays a role in Notch and Wnt signaling cascades and regulation of downstream processes via its role in processing key regulatory proteins, and by regulating cytosolic CTNNB1 levels. Stimulates cell-cell adhesion via its interaction with CDH1; this stabilizes the complexes between CDH1 (E-cadherin) and its interaction partners CTNNB1 (beta-

catenin), CTNND1 and JUP (gamma-catenin). Under conditions of apoptosis or calcium influx, cleaves CDH1. This promotes the disassembly of the complexes between CDH1 and CTNND1, JUP and CTNNB1, increases the pool of cytoplasmic CTNNB1, and thereby negatively regulates Wnt signaling. Required for normal embryonic brain and skeleton development, and for normal angiogenesis. Mediates the proteolytic cleavage of EphB2/CTF1 into EphB2/CTF2. The holoprotein functions as a calcium-leak channel that allows the passive movement of calcium from endoplasmic reticulum to cytosol and is therefore involved in calcium homeostasis. Involved in the regulation of neurite outgrowth. Is a regulator of presynaptic facilitation, spike transmission and synaptic vesicles replenishment in a process that depends on gamma-secretase activity. It acts through the control of SYT7 presynaptic expression.

Country of Origin	United States
Shipping	2-8°C (on cold packs)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.
NCBI Gene ID	5663

Product Images



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Created on 19. November 2026 | All information without guarantee