

Product datasheet

info@arigobio.com

ARG43013 anti-Presenilin 2 / PS2 antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes Presenilin 2 / PS2

Tested Reactivity Hu, Ms, Rat

Tested Application ICC/IF, IHC-P, IP, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name Presenilin 2 / PS2

Species Human

Immunogen Synthetic peptide of Human Presenilin 2 / PS2.

Conjugation Un-conjugated

Alternate Names AD4; AD5; EC 3.4.23.-; STM2; STM-2; AD3LP; Presenilin-2; CMD1V; PS2; AD3L; E5-1; PS-2

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:20 - 1:50
	IHC-P	1:20
	IP	1:20
	WB	1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HeLa	
Observed Size	~ 25 kDa	

Properties

Form	Liquid	
Purification	Affinity purified.	
Buffer	50 mM Tris-Glycine (pH 7.4), 150 mM NaCl, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.	
Preservative	0.01% Sodium azide	
Stabilizer	40% Glycerol and 0.05% BSA	
Concentration	Batch dependent	
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot	

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol PSEN2

Gene Full Name presenilin 2

Background Alzheimer's disease (AD) patients with an inherited form of the disease carry mutations in the

presenilin proteins (PSEN1 or PSEN2) or the amyloid precursor protein (APP). These disease-linked mutations result in increased production of the longer form of amyloid-beta (main component of amyloid deposits found in AD brains). Presenilins are postulated to regulate APP processing through their effects on gamma-secretase, an enzyme that cleaves APP. Also, it is thought that the presenilins are involved in the cleavage of the Notch receptor such that, they either directly regulate gamma-secretase activity, or themselves act are protease enzymes. Two alternatively spliced transcript variants

encoding different isoforms of PSEN2 have been identified. [provided by RefSeq, Jul 2008]

Function 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 (PubMed:16959576). Is a regulator of mitochondrion-endoplasmic reticulum membrane tethering and modulates calcium ions shuttling

between ER and mitochondria (PubMed:21285369). [UniProt]

Calculated Mw 50 kDa

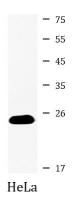
PTM Heterogeneous proteolytic processing generates N-terminal and C-terminal fragments.

Phosphorylated on serine residues. [UniProt]

Cellular Localization Endoplasmic reticulum membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-

pass membrane protein. [UniProt]

Images



ARG43013 anti-Presenilin 2 / PS2 antibody WB image

Western blot: HeLa cell lysate stained with ARG43013 anti-Presenilin 2 / PS2 antibody at 1:1000 dilution.