

Presenilin 1 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 22 (C-terminal fragment). 55 (full- length).	Source/Isotype: Rabbit	UniProt ID: #P49768	Entrez-Gene Id: 5663
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Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:100
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	Presenilin 1 Antibody detects endogenous levels of the carboxy-terminal fragment of presenilin 1 (~22 kDa). The antibody detects the full length protein (55k Da) to a lesser extent.	
Species predicted to react based on 100% sequence homology	Mouse	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near valine 293 of human presenilin 1. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Presenilin 1 and presenilin 2 are transmembrane proteins belonging to the presenilin family. Mutation of presenilin genes has been linked to early onset of Alzheimer disease, probably due to presenilin's associated γ-secretase activity for amyloid-β protein processing (1,2). Endogenous presenilin mainly exists in a heterodimeric complex formed from the endoproteolytically processed amino-terminal (34 kDa) and carboxy-terminal (~20, 22, 23 kDa) fragments (CTF) (2,3).	
Background References	1. Haass, C. and De Strooper, B. (1999) <i>Science</i> 286, 916-9. 2. Kimberly, W.T. et al. (2000) <i>J. Biol. Chem.</i> 275, 3173-3178. 3. Kim, T.W. et al. (1997) <i>J. Biol. Chem.</i> 272, 11006-11010.	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.	
Applications Key	W: Western Blotting IP: Immunoprecipitation	
Cross-Reactivity Key	H: Human Mk: Monkey	
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