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# Presenilin 1 Antibody

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

<b>Applications:</b> W, IP	<b>Reactivity:</b> H Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 22 (C-terminal fragment). 55 (full-length).	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P49768	<b>Entrez-Gene Id:</b> 5663
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunoprecipitation	<b>Dilution</b> 1:1000 1:100
<b>Storage</b>	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.	
<b>Specificity/Sensitivity</b>	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.	
<b>Species predicted to react based on 100% sequence homology</b>	Mouse	
<b>Source / Purification</b>	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.	
<b>Background</b>	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 $\gamma$ -secretase activity for amyloid- $\beta$ 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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>Haass, C. and De Strooper, B. (1999) <i>Science</i> 286, 916-9.</li> <li>Kimberly, W.T. et al. (2000) <i>J. Biol. Chem.</i> 275, 3173-3178.</li> <li>Kim, T.W. et al. (1997) <i>J. Biol. Chem.</i> 272, 11006-11010.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	<b>IMPORTANT:</b> 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.
<b>Applications Key</b>	<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation
<b>Cross-Reactivity Key</b>	<b>H:</b> Human <b>Mk:</b> Monkey
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