

#3622 Store at -20C

Presenilin 1 Antibody



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

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source: | UniProt ID: | Entrez-Gene Id: |
|---------------|-------------|--------------|---|---------|-------------|-----------------|
| WB, IP | H Mk | Endogenous | 22 (C-terminal fragment). 55 (full-length). | Rabbit | #P49768 | 5663 |

| Product Usage Information | Application | Dilution |
|---|--|----------|
| | Western Blotting | 1:1000 |
| | Immunoprecipitation | 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 | WB: Western Blotting IP: Immunoprecipitation |
| Cross-Reactivity Key | H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected |
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