

#2192 Store at -20°C

Presenilin 2 Antibody

✓ 100 µl
(10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Entrez-Gene ID #5664
Swiss-Prot Acc. #P49810

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W, IP Endogenous	H, M, R, Mk	23 (C-terminal fragment) 54 (full-length)	Rabbit**

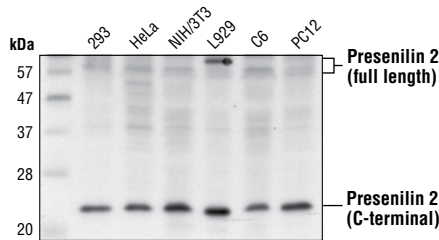
Background: Presenilin 1 and presenilin 2 are transmembrane proteins belonging to the presenilin family. Mutation of presenilin genes has been linked to early onset of Alzheimer's disease, probably due to presenilin's associated γ -secretase activity for amyloid- β protein processing (1,2). Endogenous presenilin mainly exists in a heterodimeric complex formed from the endoproteolytically processed amino-terminal (34 kDa) and carboxy-terminal (~20, 22, 23 kDa) fragments (2,3).

Specificity/Sensitivity: Presenilin 2 Antibody detects endogenous levels of the carboxy-terminal fragment of presenilin 2 (~20 kDa) and the full length protein (54 kDa) to a lesser extent. It does not cross-react with endogenous levels of presenilin 1.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding amino acid 330 of human presenilin 2. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

- (1) Haass, C. and DeStrooper, B. (1999) *Science* 286, 916-919.
- (2) Kimberly, W.T. et al. (2000) *J. Biol. Chem.* 275, 3173-3178.
- (3) Kim, T.W. et al. (1997) *J. Biol. Chem.* 272, 11006-11010.



Western blot analysis of extracts from human (293 and HeLa), mouse (NIH/3T3 and L929) and rat (C6 and PC12) cell lines, using Presenilin 2 Antibody.

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.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western Blotting	1:1000
Immunoprecipitation	1:50

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

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Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.