

Presenilin 1 (E3L9X) Rabbit mAb

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, W-S	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 28 (NTF)	Source/Isotype: Rabbit IgG	UniProt ID: #P49768	Entrez-Gene Id: 5663
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Product Usage Information**Application**

Western Blotting
Simple Western™

Dilution

1:1000
1:10 - 1:50

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 (E3L9X) Rabbit mAb recognizes endogenous levels of the Presenilin 1 protein.

Species predicted to react based on 100% sequence homology

Rat

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues at the amino terminus of the human Presenilin 1 protein.

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) *Science* 286, 916-9.
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.

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 **W-S:** Simple Western™

Cross-Reactivity Key

H: Human **M:** Mouse

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