

Rabbit polyclonal antibody to Presenilin 1 loop region: IgG

Catalogue No.: R-1680-500

Description: Presenilin-1 (PSEN1) is a multi-pass membrane protein and component of the

gamma-secretase complex. PSEN1 is thought to play a role in intracellular signaling and gene expression or in linking chromatin to the nuclear membrane. It may also play a role in hematopoiesis. Defects in PSEN1 are a cause of Alzheimer disease type 3 (AD3), a familial

early-onset form of Alzheimer disease (Ref:SWISS-Prot).

Batch No.: See product label

Unit size: 500 ug

Antigen: A synthetic peptide (GDPEAQRRVSKNSKYNA-C) corresponding to human PS1 [301-317] in

the loop region conjugated via additional C-terminal Cys to Diphtheria toxoid.

Antibody Type: Polyclonal

Other Names: Presenilin 1; PS-1; Protein S182; PS1-CTF12; PSEN1; AD3; PS1; PSNL1

Produced in: Rabbit

Applications: Western Blot. Suggested dilution of 1:1,000 is recommended for WB. Full length presenilin 1

(467 aa) has relative MW of about 45 kDa, with this antibody most commonly detected as cleaved CTF of 19 kDa. Human or mouse brain samples commonly prepared with reducing agent (50mM DTT), urea (2.3 M), SDS (1.5%) in 62.5 mM Tris-HCL pH 6.8 sample buffer (without boiling) heating to 50 C for 15 min. Biosensis recommends that the optimal working

dilution should be determined by the end user.

Specificity: Confirmed by Western blotting using transfected cells, presenilin 1 knock-out mouse cells and

mouse and human brain.

Species Against: Human; mouse; rat; guinea pig. Presenilin proteins are highly conserved, so cross-reactivity

with other species is expected.

Form: Lyophilized from PBS, pH 7.4. Contains no preservative.

Reconstitute in 500 µL of sterile water. Centrifuge to remove any insoluble material.

Storage: Short term storage at 2-8°C for one week. At -20°C as an undiluted liquid for up to 12 months.

Expiry Date: 12 months after purchase

References: Culvenor, J.G., Ilaya, N.T., Ryan, M.T., Canterford, L., Hoke, D., Williamson, N.A., McLean,

C.A., Masters, C.L., and 1. Evin, G. (2004) Characterization of Presenilin complex from mouse and human brain using Blue Native gel electrophoresis reveals high expression in embryonic brain and minimal change in complex mobility with Presenilin mutations. Eur. J. Biochem. 271,

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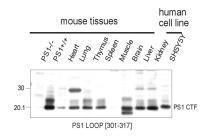


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Western Immunoblotting of mouse and human Presenilin 1 protein in mouse cell line extracts, various mouse tissues and a human cell line. Membrane proteins were prepared and loaded as 20 μ g protein per lane. Crude anti-PS1 loop antibody used at 1:1000.

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