**Rabbit polyclonal antibody to Presenilin 1 (1-20): IgG**

**Catalogue No.:** R-1605-500

**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 µg

**Antigen:** A synthetic peptide corresponding to a region (1-20 aa) from the N-terminus of human Presenilin 1 conjugated to Diptheria toxoid.

**Sequence:** MTELPAPLSYFQNAQMSEDN-C

**Antibody Type:** Polyclonal

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

**Accession:** P49768 PSN1_HUMAN;

**Produced in:** Rabbit

**Applications:** IF and WB. Suggested dilution of 1:2,000 is recommended for WB. On SDS-PAGE, the predominant form detected by this antibody is the N-terminal Presenilin 1 fragment of approx 29 kDa. The uncleaved form of Presenilin 1 migrates to approx 45 kDa. Human and mouse brain samples commonly prepared with reducing agent (50mM DTT), urea (2.3M), SDS (1%) in 62.5 mM Tris-HCl pH 6.8 sample buffer heated to 50°C for 15 min. The suggested dilution for IF is 1:100 for acetone or paraformaldehyde fixed cells or tissue. Biosensis recommends that the optimal working dilution should be determined by the end user.

**Specificity:** Specificity confirmed by WB and IF using transfected cells, Presenilin 1 knock-out mouse cells, mouse and human brain.

**Species Against:** Human; mouse; rat; guinea pig. Expected to cross-react with other species due to sequence homology.

**Conjugate:** Diptheria toxoid covalently linked to additional Cys residue using maleimidocaproyl-N-hydroxysuccinimide

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

**Reconstitution:** 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:**


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Peripheral tissues is not co-ordinated with Presenilin and is high in muscle. J. Neurochem. 91, 230-237.


Western Immunoblotting of human and mouse Presenilin 1 protein in mouse cell line extracts and mouse and human brain. Membrane protein load 20 µg. Crude anti-PS1 NT used at 1:2000.