

## **Presenilin 1 Polyclonal Antibody**

Catalog No: YT3856

**Reactivity:** Human; Mouse; Rat

**Applications:** WB;IHC;IF;ELISA

Target: Presenilin 1

**Fields:** >>Wnt signaling pathway;>>Notch signaling pathway;>>Neurotrophin signaling

pathway;>>Alzheimer disease;>>Pathways of neurodegeneration - multiple

diseases;>>Human papillomavirus infection

Gene Name: PSEN1

Protein Name: Presenilin-1

Human Gene Id: 5663

**Human Swiss Prot** 

No:

Mouse Gene Id: 19164

**Mouse Swiss Prot** 

No:

Rat Gene ld: 29192

Rat Swiss Prot No: P97887

**Immunogen:** The antiserum was produced against synthesized peptide derived from human

PSEN1. AA range:323-372

Specificity: Presenilin 1 Polyclonal Antibody detects endogenous levels of Presenilin 1

protein.

P49768

P49769

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

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WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200 **Dilution:** 

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

**Concentration:** 1 mg/ml

-15°C to -25°C/1 year(Do not lower than -25°C) **Storage Stability:** 

**Observed Band:** 43kD

Cell Pathway: WNT;WNT-T CELLNotch;Neurotrophin;Alzheimer's disease;

**Background:** Alzheimer's disease (AD) patients with an inherited form of the disease

> precursor protein (APP). These disease-linked mutations result in increased production of the longer form of amyloid-beta (main component of amyloid deposits found in AD brains). Presentilins are postulated to regulate APP processing through their effects on gamma-secretase, an enzyme that cleaves

carry mutations in the presentlin proteins (PSEN1; PSEN2) or in the amyloid

APP. Also, it is thought that the presentlins are involved in the cleavage of the Notch receptor, such that they either directly regulate gamma-secretase activity or themselves are protease enzymes. Several alternatively spliced transcript

variants encoding different isoforms have been identified for this gene, the fulllength nature of only some have been determined. [provided by RefSeq, Aug

2008].

**Function:** disease:Defects in PSEN1 are a cause of Alzheimer disease type 3 (AD3)

> [MIM:607822]. AD3 is a familial early-onset form of Alzheimer disease. Alzheimer disease is a neurodegenerative disorder characterized by progressive dementia.

loss of cognitve abilities, and deposition of fibrillar amyloid proteins as

intraneuronal neurofibrillary tangles, extracellular amyloid plagues and vascular amyloid deposits. The major constituent of these plaques is the neurotoxic

amyloid-beta-APP 40-42 peptide (s), derived proteolytically from the

transmembrane precursor protein APP by sequential secretase processing. The cytotoxic C-terminal fragments (CTFs) and the caspase-cleaved products such as C31 derived from APP, are also implicated in neuronal death., disease: Defects

in PSEN1 are a cause of frontotemporal dementia [MIM:600274]..domain:The

PAL motif is required for normal active site conformation.,fun

Subcellular Location:

Endoplasmic reticulum . Endoplasmic reticulum membrane ; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein. Cytoplasmic granule. Cell membrane; Multi-pass membrane protein. Cell projection, growth cone. Early endosome. Early endosome membrane; Multipass membrane protein . Cell projection, neuron projection . Cell projection, axon . Cell junction, synapse . Translocates with bound NOTCH1 from the endoplasmic reticulum and/or Golgi to the cell surface (PubMed:10593990).

Colocalizes with CDH1/2 at sites of cell-cell contact. Colocalizes with CTNNB1 in

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the endoplasmic reticulum and the proximity of the plasma membrane (PubMed:9738936). Also present in azurophil granules of neutrophils (PubMed:11987239). Colocalizes with UBQLN1 in the cell membrane and

**Expression :** Detected in azurophile granules in neutrophils and in platelet cytoplasmic

granules (at protein level) (PubMed:11987239). Expressed in a wide range of tissues including various regions of the brain, liver, spleen and lymph nodes

(PubMed:7596406, PubMed:8641442, PubMed:8574969).

Tag: orthogonal

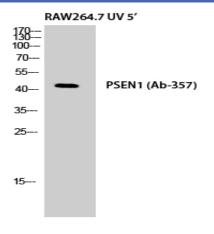
**Sort:** 13008

**No4**:

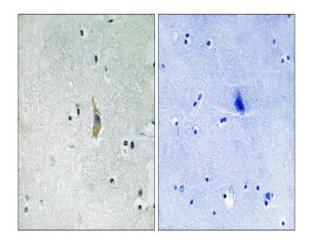
Host: Rabbit

Modifications: Unmodified

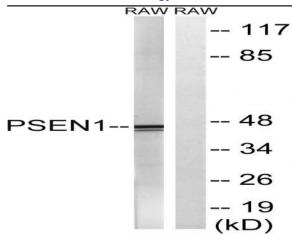
## **Products Images**



Western Blot analysis of RAW264.7 UV 5' cells using Presenilin 1 Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using PSEN1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from Raw264.7 cells, treated with UV 5', using PSEN1 Antibody. The lane on the right is blocked with the synthesized peptide.