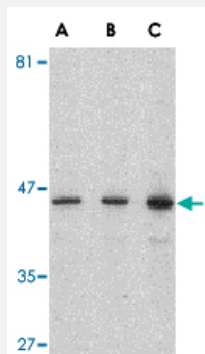


PSEN1 polyclonal antibody

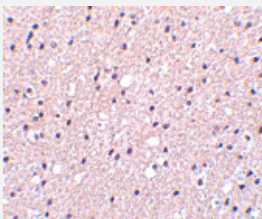
Catalog # PAB12993 Size 100 ug

Applications



Western Blot (Tissue lysate)

Western blot analysis of PSEN1 in human brain lysate with PSEN1 polyclonal antibody (Cat # PAB12993) at (A) 0.5, (B) 1, and (C) 2 ug/mL .



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry of PSEN1 in human brain tissue with PSEN1 polyclonal antibody (Cat # PAB12993) at 2.5 ug/mL .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PSEN1.
Immunogen	A synthetic peptide corresponding to C-terminus 23 amino acids of human PSEN1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody has no cross-reactivity to presenilin2.
Form	Liquid

Recommend Usage	Western Blot (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.02% sodium azide)
Storage Instruction	Store at 4°C for three months. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western blot analysis of PSEN1 in human brain lysate with PSEN1 polyclonal antibody (Cat # PAB12993) at (A) 0.5, (B) 1, and (C) 2 ug/mL .

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry of PSEN1 in human brain tissue with PSEN1 polyclonal antibody (Cat # PAB12993) at 2.5 ug/mL .

Gene Info — PSEN1

Entrez GeneID	5663
Protein Accession#	NP_000012
Gene Name	PSEN1
Gene Alias	AD3, FAD, PS1, S182
Gene Description	presenilin 1
Omim ID	104311 172700 600274 607822
Gene Ontology	Hyperlink

Gene Summary	Alzheimer's disease (AD) patients with an inherited form of the disease carry mutations in the presenilin proteins (PSEN1; PSEN2) or in the amyloid 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). Presenilins are postulated to regulate APP processing through their effects on gamma-secretase, an enzyme that cleaves APP. Also, it is thought that the presenilins 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 full-length nature of only some have been determined. [provided by RefSeq]
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Other Designations

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Publication Reference

- [Functional reconstitution of gamma-secretase through coordinated expression of presenilin, nicastrin, Aph-1, and Pen-2.](#)

Periz G, Fortini ME.

Journal of Neuroscience Research 2004 Aug; 77(3):309.

- [The cell biology of beta-amyloid precursor protein and presenilin in Alzheimer's disease.](#)

Selkoe DJ.

Trends in Cell Biology 1998 Nov; 8(11):447.

- [Cloning of a gene bearing missense mutations in early-onset familial Alzheimer's disease.](#)

Sherrington R, Rogaev EI, Liang Y, Rogaeva EA, Levesque G, Ikeda M, Chi H, Lin C, Li G, Holman K, et al..

Nature 1995 Jun; 375(6534):754.

Pathway

- [Neurotrophin signaling pathway](#)
- [Notch signaling pathway](#)
- [Wnt signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Amyotrophic lateral sclerosis](#)
- [Anomia](#)
- [Cardiovascular Diseases](#)
- [Chromosome Disorders](#)
- [Cognition](#)

- [Cognition Disorders](#)
- [Dementia](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Disease Progression](#)
- [Down Syndrome](#)
- [Genetic Predisposition to Disease](#)
- [Headache](#)
- [Lewy Body Disease](#)
- [Macular Degeneration](#)
- [Memory Disorders](#)
- [Mental Status Schedule](#)
- [Metabolic Syndrome X](#)
- [Narcolepsy](#)
- [Neoplasms](#)
- [Neurodegenerative Diseases](#)
- [Neuropsychological Tests](#)
- [Osteoporosis](#)
- [Parkinson disease](#)
- [Psychiatric Status Rating Scales](#)
- [Recurrence](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)
- [Tourette Syndrome](#)