

Datasheet for ABIN500539

anti-Presenilin 1 antibody (C-Term)

2 Images



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Overview

Quantity:	0.1 mg
Target:	Presenilin 1 (PSEN1)
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Presenilin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Presenilin1 antibody was raised against a 23 amino acid peptide from near the carboxy terminus of human presenilin1.
Isotype:	IgG
Specificity:	This antibody detects Presenilin-1. It has no cross-reactivity to presenilin-2.
Cross-Reactivity (Details):	Species reactivity (tested):Human, mouse, rat
Purification:	Peptide affinity chromatography

Target Details

Target:	Presenilin 1 (PSEN1)
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Target Details

Alternative Name:	Presenilin-1 (PSEN1 Products)
Background:	Presenilin1 was initially identified a marker of susceptibility to early-onset Alzheimer's disease. In addition to PEN2, nicastrin and APH-1, Presenilin1 forms the g-secretase protein complex, a membrane-bound aspartyl protease that can cleave certain proteins at peptide bonds buried within the hydrophobic environment of the lipid bilayer. This cleavage is responsible for a key step in signaling from several cell-surface receptors and is thought to be required for the generation of the neurotoxic amyloid peptides that are central to the pathogenesis of Alzheimer's disease. Like the tumor necrosis factor-α-converting enzyme (TACE) and the b-site cleavage enzyme (BACE) protease families, g-secretase will cleave the amyloid precursor protein (APP), but within the intramembrane region of APP, resulting in either the non-toxic p3 (from the a and g cleavage site) or the toxic Ab amyloid peptide (from the b and g cleavage site). It is thought that accumulation of the Ab peptide is the precursor to Alzheimer's disease. Multiple isoforms of presenilin1 are known to exist.Synonyms: AD3, AF3, Alzheimer Disease 3, FAD, PS-1, PS1, PSEN1, PSNL1, Presenilin 1, S182
Gene ID:	5663
NCBI Accession:	NP_000012
UniProt:	P49768
Pathways:	Notch Signaling , EGFR Signaling Pathway , Synaptic Vesicle Exocytosis , Dicarboxylic Acid Transport

Application Details

Application Notes:	ELISA. Western blot: 0.5 - 1 μg/mL. Immunohistochemistry on paraffin sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

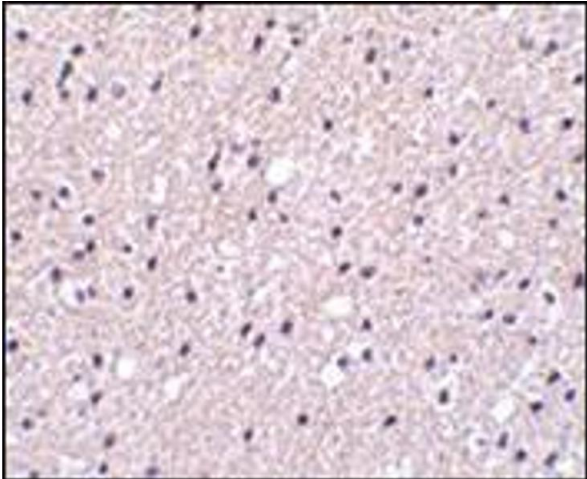
Handling

Concentration:	1 mg/mL
Buffer:	PBS containing 0.02 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

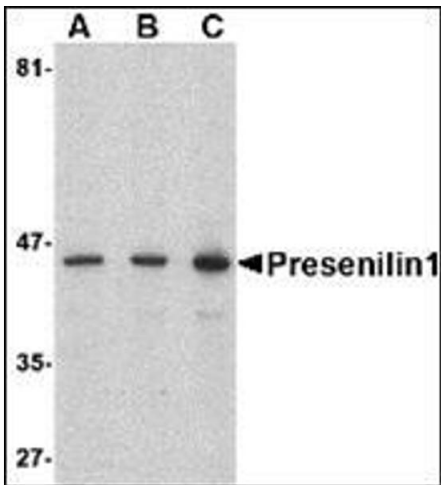
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of Presenilin1 in human brain tissue with this product at 2.5 µg/ml.



Western Blotting

Image 2. Western blot analysis of presenilin1 in human brain lysate with this product at (A) 0.5, (B) 1, and (C) 2 µg/ml.