Datasheet for ABIN500473

anti-PEN2 antibody (N-Term)

2 Images

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Overview

Quantity:	0.1 mg
Target:	PEN2 (PSENEN)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PEN2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	PEN2 antibody was raised against a 13 amino acid peptide from near the amino terminus of human PEN2.
Isotype:	IgG
Specificity:	This antibody detects PEN2 at N-term.
Cross-Reactivity (Details):	Species reactivity (tested):Human, mouse, rat
Purification:	Peptide affinity chromatrography

Target Details

Target:	PEN2 (PSENEN)

Target Details

Alternative Name:	PEN2 (PSENEN Products)
Background:	PEN2, in addition to presenilin, nicastrin, and APH-1 forms the γ-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 β-site cleavage enzyme (BACE) protease families, γ-secretase will cleave the amyloid precursor protein (APP), but within the intramembrane region of APP, resulting in either the non-toxic p3 (from the α and γ cleavage site) or the toxic A?β amyloid peptide (from the β and γ cleavage site). It is thought that accumulation of the Aβ peptide is the precursor to Alzheimer's disease.Synonyms: Gamma-secretase subunit PEN-2, MDS033, PSENEN, Presenilin enhancer protein 2
Gene ID:	55851
NCBI Accession:	NP_758844
UniProt:	Q9NZ42
Pathways:	Notch Signaling, Neurotrophin Signaling Pathway

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

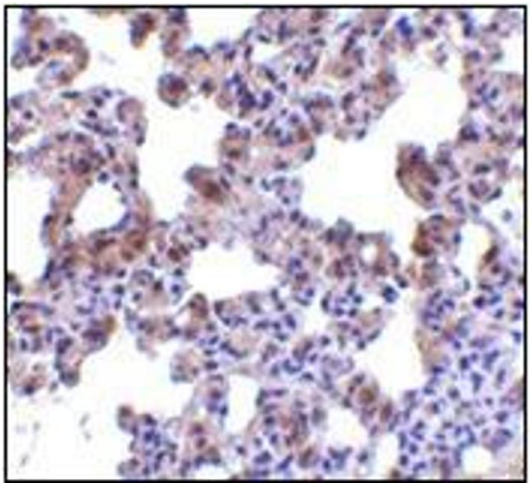
Handling

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 Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C

Handling

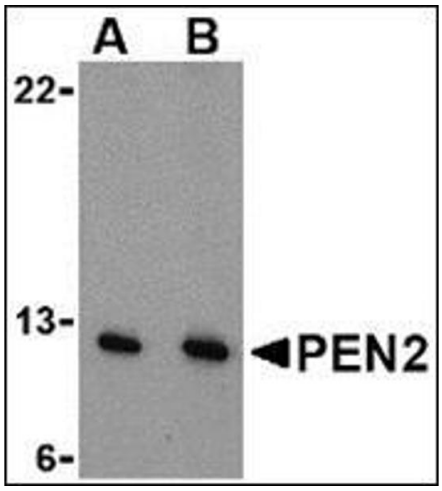
Storage Comment:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of PEN2 in rat lung tissue with this product at 2.5 µg/ml.



Western Blotting

Image 2. Western blot analysis of PEN2 in A-20 cell lysate with this product at (A) 0.5 and (B) 1 µg/ml.