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anti-PEN2 antibody (C-Term)

2 Images



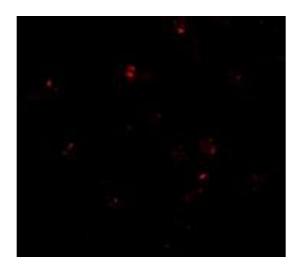
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Overview

Overview	
Quantity:	0.1 mg
Target:	PEN2 (PSENEN)
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PEN2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Enzyme Immunoassay (EIA)
Product Details	
Immunogen:	PEN2 antibody was raised against a 13 amino acid peptide from near the carboxy terminus of human PEN2.
Isotype:	IgG
Specificity:	This antibody detects PEN2 at C-term.
Cross-Reactivity (Details):	Species reactivity (tested):Human, mouse, rat
Purification:	Peptide affinity chromatography
Target Details	
Target:	PEN2 (PSENEN)

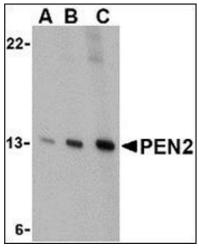
Target Details

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 $\ensuremath{A\beta}$ 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. Immunoflourescence.
	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
Storage Comment:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.



Immunofluorescence

Image 1. Immunofluorescence of PEN2 in K562 cells with this product at 20 μ g/ml.



Western Blotting

Image 2. Western blot analysis of PEN2 in K562 cell lysate with this product at (A) 0.5, (B) 1, and (C) 2 μ g/ml.