

Product datasheet for **TA306368**

PEN2 (PSENEN) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 0.5 - 1 ug/mL, ICC: 2.5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	PEN2 antibody was raised against a 13 amino acid peptide from near the amino terminus of human PEN2.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	presenilin enhancer gamma-secretase subunit
Database Link:	NP_758844 Entrez Gene 66340 Mouse Entrez Gene 292788 Rat Entrez Gene 55851 Human Q9NZ42



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Background:

PEN2, in addition to presenilin, nicastrin, and A Φ -1 forms the gamma-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-alpha-converting enzyme (TACE) and the beta-site cleavage enzyme (BACE) protease families, gamma-secretase will cleave the amyloid precursor protein (APP), but within the intramembrane region of APP, resulting in either the non-toxic p3 (from the alpha and gamma cleavage site) or the toxic A β beta amyloid peptide (from the beta and gamma cleavage site). It is thought that accumulation of the A β peptide is the precursor to Alzheimer's disease.

Synonyms:

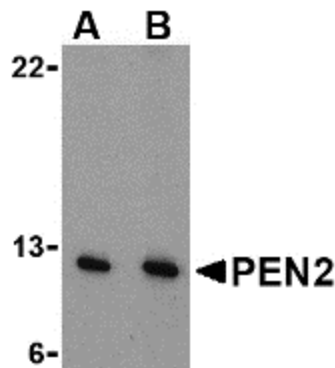
MDS033; MSTP064; PEN-2; PEN2

Protein Families:

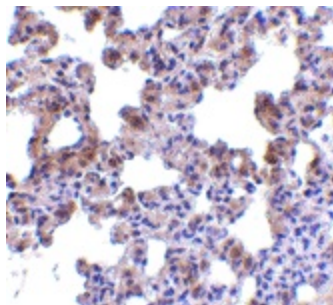
Druggable Genome, Transmembrane

Protein Pathways:

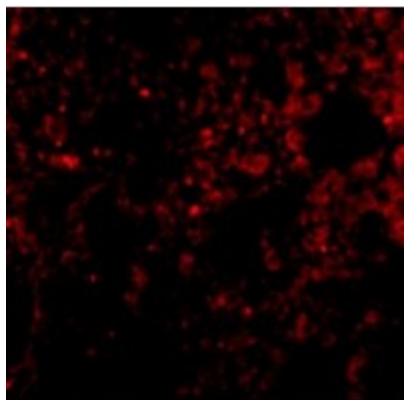
Alzheimer's disease, Notch signaling pathway

Product images:

Western blot analysis of PEN2 in A-20 cell lysate with PEN2 antibody at (A) 0.5 and (B) 1 μ g/ml.



Immunohistochemistry of PEN2 in rat lung tissue with PEN2 antibody at 2.5 μ g/ml.



Immunofluorescence of PEN2 in Rat Lung cells with PEN2 antibody at 20 ug/mL.