

Rabbit PEN2 Polyclonal Antibody | anti-PSENEN antibody

PEN2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329082	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Xenopus(86%)	ELISA

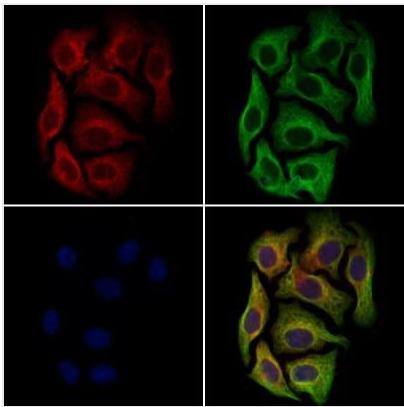
PRODUCT SYNONYMS

PEN2; Polyclonal Antibody; PEN2 Antibody; Gamma secretase subunit PEN 2; Gamma Secretase Subunit PEN2; Gamma-secretase subunit PEN-2; Hematopoietic stem/progenitor cells protein MDS033; MDS033; MSTP064; PEN 2; PEN2_HUMAN; Presenilin Enhancer 2; Presenilin enhancer 2 homolog; Presenilin enhancer protein 2; PSEN2; psenen; anti-PSENEN antibody

PRODUCT SPECIFICATIONS

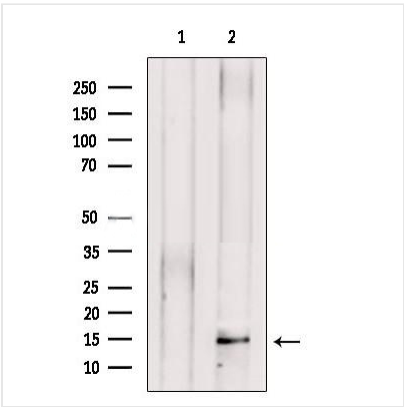
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Xenopus(86%)
Clonality	Polyclonal
Isotype	IgG
Specificity	PEN2 Antibody detects endogenous levels of total PEN2.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	101
Applicable Applications for anti-PSENEN antibody	ELISA
Immunogen	A synthesized peptide derived from human PEN2, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA329082 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA329082 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



WB (Western Blot)

Western blot analysis of extracts from Rat brain, using PEN2 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PSENEN antibody	Function: Essential subunit of the gamma-secretase complex, an endoprotease complex that catalyzes the intramembrane cleavage of integral membrane proteins such as Notch receptors and APP (amyloid-beta precursor protein) (PubMed:12522139, PubMed:12763021, PubMed:12740439, PubMed:12679784, PubMed:24941111, PubMed:30598546, PubMed:30630874). The gamma-secretase complex plays a role in Notch and Wnt signaling cascades and regulation of downstream processes via its role in processing key regulatory proteins, and by regulating cytosolic CTNNB1 levels (Probable). PSENEN modulates both endoproteolysis of presenilin and gamma-secretase activity (PubMed:12522139, PubMed:12763021, PubMed:12740439, PubMed:12679784, PubMed:24941111). Subcellular Location: Endoplasmic reticulum membrane>Multi-pass membrane protein. Golgi apparatus>Golgi stack membrane>Multi-pass membrane protein. Cell membrane>Multi-pass membrane protein. Membrane>Multi-pass membrane protein. Note: Predominantly located in the endoplasmic reticulum and in the cis-Golgi. Tissue Specificity: Widely expressed. Expressed in leukocytes, lung, placenta, small intestine, liver, kidney, spleen thymus, skeletal muscle, heart and brain. Subunit Structure: The functional gamma-secretase complex is composed of at least four polypeptides: a presenilin homodimer (PSEN1 or PSEN2), nicastrin (NCSTN), APH1 (APH1A or APH1B) and PSENEN. Similarity: Belongs to the PEN-2 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	28144920
NCBI GeneID	55851
NCBI Accession #	NP_758844
NCBI GenBank Nucleotide #	NP_758844.1
UniProt Accession #	Q9NZ42
Molecular Weight	Observed Molecular Weight: (Observed)12kD. Predicted Molecular Weight: (Calculated)12kDa.
NCBI Official Full Name	gamma-secretase subunit PEN-2
NCBI Official Synonym Full Names	presenilin enhancer, gamma-secretase subunit

NCBI Official Symbol	PSENEN
NCBI Official Synonym Symbols	PEN2; PEN-2; MDS033; ACNINV2; MSTP064
NCBI Protein Information	gamma-secretase subunit PEN-2
UniProt Protein Name	Gamma-secretase subunit PEN-2
UniProt Gene Name	PSENEN
UniProt Synonym Gene Names	PEN2
UniProt Entry Name	PEN2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/pen2-antibody-elisa/329082>