

PEN2 Rabbit mAb

Catalog # AP78110

Product Information

Application	WB, IHC-P, IF, FC, ICC
Primary Accession	Q9NZ42
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Immunogen	A synthesized peptide derived from human PEN2
Purification	Affinity Chromatography
Calculated MW	12029

Additional Information

Gene ID	55851
Other Names	PSENEN
Dilution	WB~~1/500-1/1000 IHC-P~~N/A IF~~1:50~200 FC~~1:10~50 ICC~~N/A
Format	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	PSENEN
Synonyms	PEN2
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: 12679784 , PubMed: 12740439 , PubMed: 12763021 , 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: 12679784 , PubMed: 12740439 , PubMed: 12763021 , PubMed: 24941111). Besides its role in gamma-secretase complex, acts as a regulator of AMP-activated protein

kinase (AMPK) activity in response to calorie restriction: binds metformin, an antidiabetic drug, promoting association with ATP6AP1, a subunit of the V-ATPase complex, leading to V-ATPase complex inhibition on lysosomes and AMPK activation via the AXIN1-STK11/LKB1 axis (By similarity).

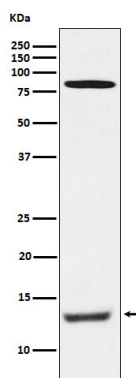
Cellular Location

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 Location

Widely expressed. Expressed in leukocytes, lung, placenta, small intestine, liver, kidney, spleen thymus, skeletal muscle, heart and brain.

Images



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