

PEN2 Rabbit mAb

Catalog No: #49988

Package Size: #49988-1 50ul #49988-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

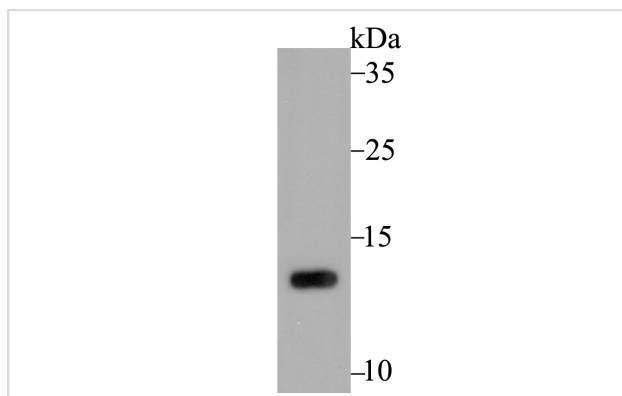
Description

Product Name	PEN2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JE41-28
Purification	ProA affinity purified
Applications	WB,ICC,IHC,FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Synthetic peptide corresponding to C-terminal human PEN2.
Other Names	Gamma secretase subunit PEN 2 antibody Gamma Secretase Subunit PEN2 antibody Gamma-secretase subunit PEN-2 antibody Hematopoietic stem/progenitor cells protein MDS033 antibody MDS033 antibody MSTP064 antibody PEN 2 antibody PEN2_HUMAN antibody Presenilin Enhancer 2 antibody Presenilin enhancer 2 homolog antibody Presenilin enhancer protein 2 antibody PSEN2 antibody psenen antibody
Accession No.	Swiss-Prot#:Q9NZ42
Uniprot	Q9NZ42
GeneID	55851;
Calculated MW	12 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

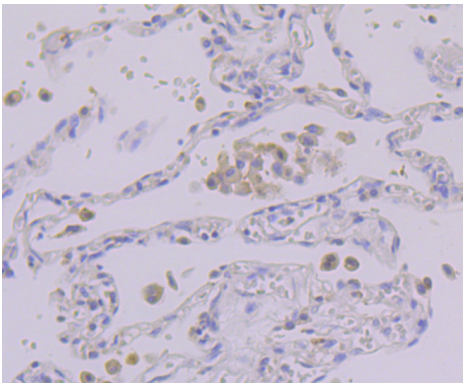
Application Details

WB: 1:500-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200 FC: 1:50-1:100

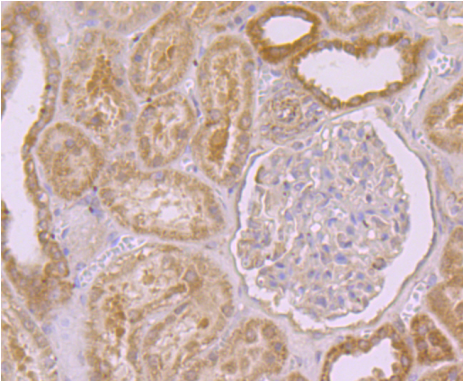
Images



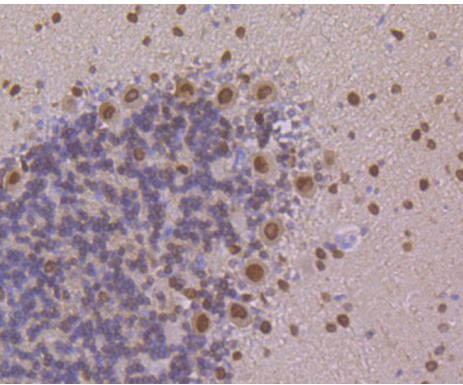
Western blot analysis of PEN2 on mouse spleen tissue lysate using anti-PEN2 antibody at 1/2,000 dilution.



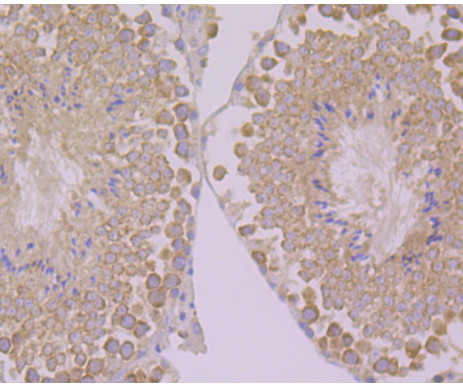
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-PEN2 antibody. Counter stained with hematoxylin.



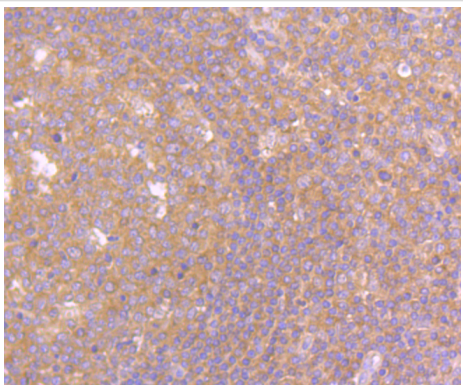
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-PEN2 antibody. Counter stained with hematoxylin.



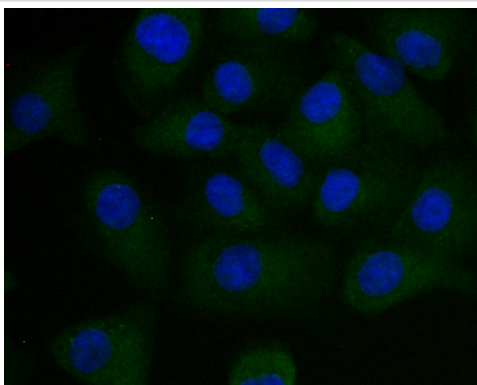
Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue using anti-PEN2 antibody. Counter stained with hematoxylin.



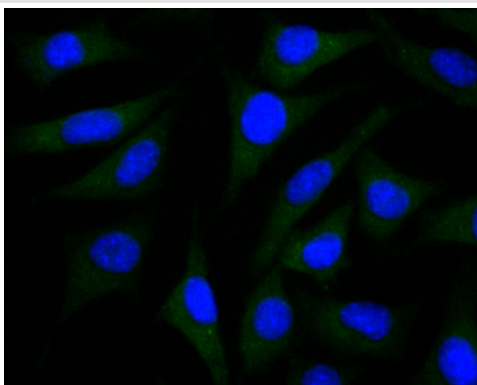
Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-PEN2 antibody. Counter stained with hematoxylin.



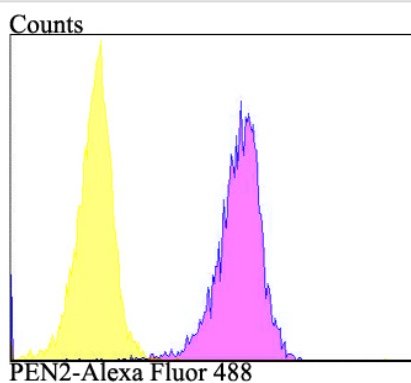
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-PEN2 antibody. Counter stained with hematoxylin.



ICC staining PEN2 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining PEN2 in SH-SY-5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of A549 cells with PEN2 antibody at 1/100 dilution (purple) compared with an unlabelled control (cells without incubation with primary antibody; yellow). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

Background

Four proteins comprise the gamma-secretase complex: presenilin, nicastrin, aph-1, and PEN-2. Together, these proteins mediate cell surface signaling pathways for a variety of type I membrane proteins, notably amyloid-beta precursor protein, a protein implicated in the development of Alzheimer's disease, via intramembrane proteolysis. The proteins assemble into a proteolytically active complex in the golgi/trans-golgi network (TGN) compartments. Assembly leads to autocleavage of presenilin into two subunits to create the active site of gamma-secretase, an important step in understanding the mechanisms involved in the etiology and possible treatment of Alzheimer's disease.

References

Note: This product is for in vitro research use only