



Datasheet for ABIN7269513
anti-PEN2 antibody



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2 Images

Overview

Quantity:	100 µL
Target:	PEN2 (PSENEN)
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This PEN2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Purpose:	PEN2/PSENEN Rabbit mAb
Immunogen:	A synthesized peptide derived from human PEN2/PSENEN
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	PEN2 (PSENEN)
Alternative Name:	PSENEN (PSENEN Products)
Background:	Presenilins, which are components of the gamma-secretase protein complex, are required for

Target Details

intramembranous processing of some type I transmembrane proteins, such as the Notch proteins and the beta-amyloid precursor protein. Signaling by Notch receptors mediates a wide range of developmental cell fates. Processing of the beta-amyloid precursor protein generates neurotoxic amyloid beta peptides, the major component of senile plaques associated with Alzheimer's disease. This gene encodes a protein that is required for Notch pathway signaling, and for the activity and accumulation of gamma-secretase. Mutations resulting in haploinsufficiency for this gene cause familial acne inversa-2 (ACNINV2). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013],MDS033, MSTP064, PEN-2, PEN2,Cell Biology & Developmental Biology,ErbB-HER Signaling Pathway,ESC Pluripotency and Differentiation,Neurodegenerative Diseases,Neurodegenerative Diseases Markers,Neurodegenerative Diseases_Amyloid Plaque and Neurofibrillary Tangle Formation in Alzheimers Disease,Neuroscience,Notch Signaling Pathway,Signal Transduction,PSENEN

Molecular Weight: 13kDa

Gene ID: 55851

UniProt: [Q9NZ42](#)

Pathways: [Notch Signaling](#), [Neurotrophin Signaling Pathway](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IF,1:50 - 1:200

Restrictions: For Research Use only

Handling

Format: Liquid

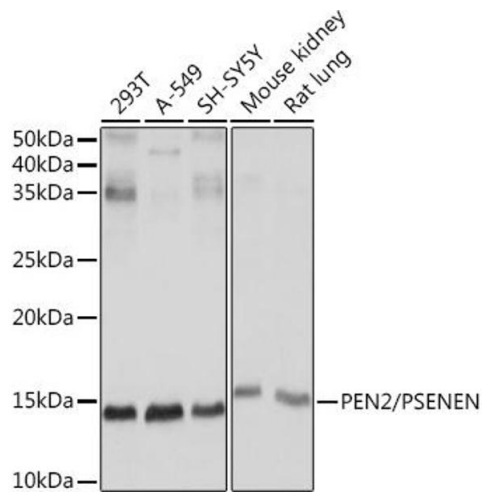
Buffer: PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

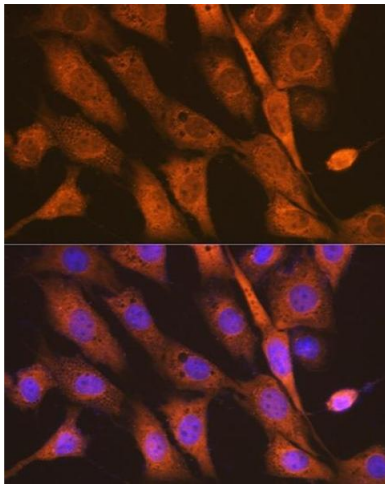
Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using PEN2/PSENE1 Rabbit mAb (ABIN7269513) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



Immunofluorescence

Image 2. Immunofluorescence analysis of NIH-3T3 cells using PEN2/PSENE1 Rabbit mAb (ABIN7269513) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.