Best Tools for immunology Research

PEN2 rabbit pAb

Catalog No :	YT6362
Reactivity :	Human;Mouse;Rat
Applications :	IHC;IF
Target :	PEN2
Fields :	>>Notch signaling pathway;>>Alzheimer disease
Gene Name :	PSENEN PEN2 MDS033
Protein Name :	PEN2
Human Gene Id :	55851
Human Swiss Prot No :	Q9NZ42
Mouse Gene Id :	66340
Mouse Swiss Prot No :	Q9CQR7
Rat Gene Id :	292788
Rat Swiss Prot No :	Q6QI68
Immunogen :	Synthesized peptide derived from human PEN2 AA range: 51-101
Specificity :	This antibody detects endogenous levels of PEN2 at Human/Mouse/Rat
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IHC 1□50-200. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 11kD

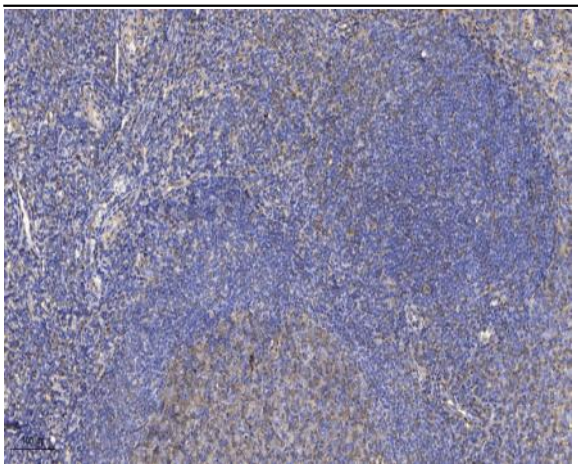
Background : Presenilins, which are components of the gamma-secretase protein complex, are required for intramembranous processing of some type I transmembrane proteins, such as the Notch proteins and the beta-amyloid precursor protein. Signaling by Notch receptors mediates a wide range of developmental 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],

Function : 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 (beta-amyloid precursor protein). Probably represents the last step of maturation of gamma-secretase, facilitating endoproteolysis of presenilin and conferring gamma-secretase activity.,similarity:Belongs to the PEN-2 family.,subcellular location:Predominantly located in the endoplasmic reticulum and in the cis-Golgi.,subunit:Component of the gamma-secretase complex, a complex composed of a presenilin homodimer (PSEN1 or PSEN2), nicastrin (NCSTN), APH1 (APH1A or APH1B) and PSENEN/PEN2. Such minimal complex is sufficient for secretase activity, although other components may exist.,tissue specificity:Widely expressed. Expressed in leukocytes, lung, placenta, small intestine, liver, kidney, spleen thymus, s

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 . Predominantly located in the endoplasmic reticulum and in the cis-Golgi. .

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

Products Images



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).