Product Name: PTN13 Rabbit Polyclonal Antibody
Catalog #: APRab16656
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	IHC,ICC/IF
Reactivity	Human,Rat,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	IHC 1:50-1:300,ICC/IF 1:50-1:200
Molecular Weight	273kDa

Antigen Information

Gene Name	PTPN13
Alternative Names	PNP1 PTP1E PTPL1
Gene ID	5783.0
SwissProt ID	Q12923
Immunogen	Synthesized peptide derived from part region of human protein

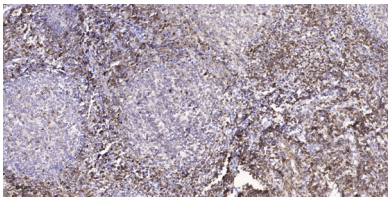
Background

The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP is a large intracellular protein. It has a catalytic PTP domain at its C-terminus and two major structural domains: a

region with five PDZ domains and a FERM domain that binds to plasma membrane and cytoskeletal elements. This PTP was found to interact with, and dephosphorylate, Fas receptor and IkappaBalpha through the PDZ domains. This suggests it has a role in Fas mediated programmed cell death. This PTP was also shown to interact with GTPase-activating protein, and thus may function as a regulator of Rho signaling pathways. Four alternatively spliced transcript variants, which encode distinct proteins, hacatalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.,function:Regulates negatively FAS-induced apoptosis and NGFR-mediated pro-apoptotic signaling.,sequence caution:Contaminating sequence. Potential poly-A sequence.,similarity:Belongs to the protein-tyrosine phosphatase family. Non-receptor class subfamily.,similarity:Contains 1 FERM domain.,similarity:Contains 1 KIND domain.,similarity:Contains 1 tyrosine-protein phosphatase domain.,similarity:Contains 3 PDZ (DHR) domains.,similarity:Contains 4 PDZ (DHR) domains.,similarity:Contains 5 PDZ (DHR) domains.,subunit:Interacts with TRIP6 and TNFRSF6 (Fas receptor) through its second PDZ domain. Interacts with the C-terminal SVP motif of NGFR through its third PDZ domain. Interacts with the LIM domain of PDLIM4 through its second and fourth PDZ domains. Binds PLEKHA1 and PLEKHA2 through its first PDZ domain. Interacts with BRD7 and ARHGAP29.,tissue specificity:Present in most tissues with the exception of the liver and skeletal muscle. Most abundant in lung, kidney and fetal brain.,

Research Area

Image Data



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Tris-EDTA,pH9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200 (4° overnight.3,Secondary antibody was diluted at 1:200 (room temperature, 45min) .