

PTPN4 Recombinant monoclonal antibody

Catalog Number: 83695-1-RR

Basic Information

Catalog Number: 83695-1-RR	GenBank Accession Number: BC010674	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 5775	CloneNo.: 240739A11
Isotype: IgG	UNIPROT ID: P29074	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:250-1:1000
Immunogen Catalog Number: AG1585	Full Name: protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte)	
	Calculated MW: 106 kDa	
	Observed MW: 106 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: human, rat, pig	WB : rat brain tissue, pig brain tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : mouse brain tissue,

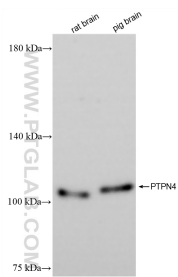
Background Information

PTPN4 is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This protein contains a C-terminal PTP domain and an N-terminal domain homologous to the band 4.1 superfamily of cytoskeletal-associated proteins. This PTP has been shown to interact with glutamate receptor delta 2 and epsilon subunits, and is thought to play a role in signalling downstream of the glutamate receptors through tyrosine dephosphorylation.

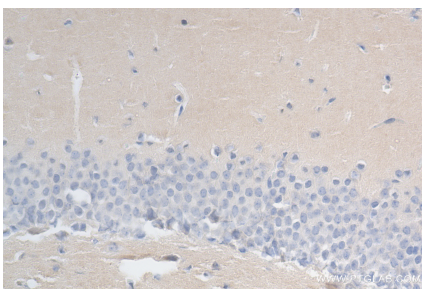
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

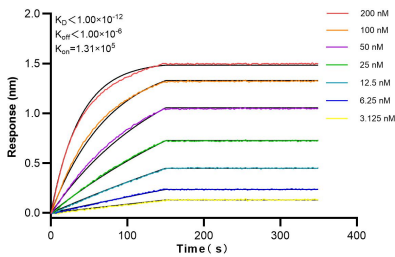
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83695-1-RR (PTPN4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83695-1-RR (PTPN4 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83695-1-RR against Human PTPN4 were performed. The affinity constant is below 1 pM.