

Product datasheet for **TA349114**

PTPN5 Rabbit Polyclonal Antibody

Product data:

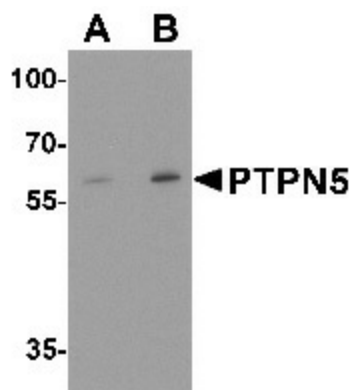
Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 - 2 ug/mL, IHC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	PTPN5 antibody was raised against an 18 amino acid peptide near the amino terminus of human PTPN5.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	PTPN5 antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	Predicted: 62 kDa; Observed: 60 kDa
Gene Name:	protein tyrosine phosphatase, non-receptor type 5
Database Link:	NP_008837 Entrez Gene 84867 Human Q9BZE0
Background:	The protein tyrosine phosphatase PTPN5, also known as Striatal enriched phosphatase (STEP), is involved in the regulation of synaptic plasticity and neuronal cell survival, including MAPKs, Src family kinases and NMDA receptors (1). It is expressed in dopaminergic neurons of the central nervous system and multiple forms of PTPN5 show differential enrichment in adult brain regions (2). NMDA-mediated activation of PTPN5 is an important mechanism for regulation of Erk activity in neurons (3). Furthermore, PTPN5 is involved in the regulation of both NMDAR and AMPAR trafficking (4,5). PTPN5 may play a role in Alzheimer's disease (1).



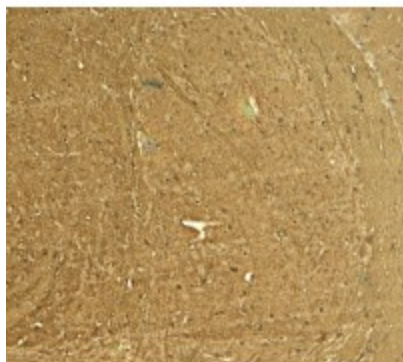
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Synonyms: NKL; NPHP7

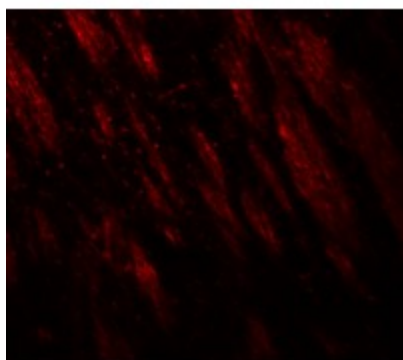
Product images:



Western blot analysis of PTPN5 in Jurkat cell lysate with PTPN5 antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of PTPN5 in mouse brain tissue with PTPN5 antibody at 5 ug/mL.



Immunofluorescence of PTPN5 in mouse brain tissue with PTPN5 antibody at 20 ug/mL.