

Rabbit anti-Human, Mouse PTPN5 Polyclonal Antibody | anti-PTPN5 antibody

PTPN5 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40537	Rabbit	Human, Mouse	Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

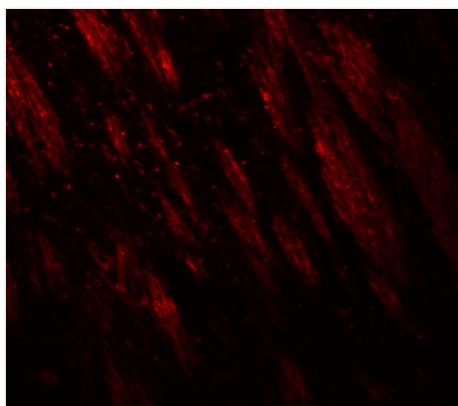
PRODUCT SYNONYMS

PTPN5; Polyclonal Antibody; PTPN5 Antibody; Tyrosine-protein phosphatase non-receptor type 5; Neural-specific protein-tyrosine phosphatase; PTPSTEP; Striatum-enriched protein-tyrosine phosphatase; STEP ; protein tyrosine phosphatase; non-receptor type 5 (striatum-enriched); anti-PTPN5 antibody

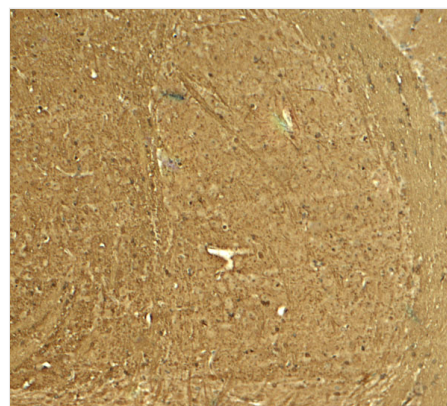
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	PTPN5 antibody is human and mouse reactive.
Purity/Purification	PTPN5 antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	565
Applicable Applications for anti-PTPN5 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	PTPN5 antibody was raised against an 18 amino acid peptide near the amino terminus of human PTPN5.
Buffer	PTPN5 antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	PTPN5 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year.

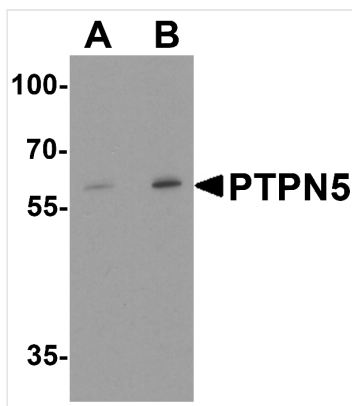
IMAGES


IF (Immunofluorescence)

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


IHC (Immunohistochemistry)

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



WB (Western Blot)

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

ADDITIONAL INFORMATION

Related Product Information for anti-PTPN5 antibody

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 dopaminoceptive 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).

NCBI AND UNIPROT INFORMATION

NCBI GI #	90652859
NCBI GeneID	84867
NCBI Accession #	NP_008837
NCBI GenBank Nucleotide #	NM_006906.1
UniProt Accession #	Q86TL6; Q6P1Z2; Q8N2A1; Q8NDP8; B3KXG7; B7Z386; B7ZAF5; D3DQY7; P54829
Molecular Weight	Predicted: 62 kDa Observed: 60 kDa
NCBI Official Full Name	tyrosine-protein phosphatase non-receptor type 5 isoform a
NCBI Official Synonym Full Names	protein tyrosine phosphatase, non-receptor type 5 (striatum-enriched)
NCBI Official Symbol	PTPN5
NCBI Official Synonym Symbols	STEP; PTPSTEP
NCBI Protein Information	tyrosine-protein phosphatase non-receptor type 5; neural-specific protein-tyrosine phosphatase; protein-tyrosine phosphatase striatum-enriched; striatum-enriched protein-tyrosine phosphatase
UniProt Protein Name	Tyrosine-protein phosphatase non-receptor type 5
UniProt Gene Name	PTPN5
UniProt Synonym Gene Names	STEP
UniProt Entry Name	PTN5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

