

## Anti-PTPN5 Antibody

Catalog Number: A05405

### About PTPN5

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).

### Overview

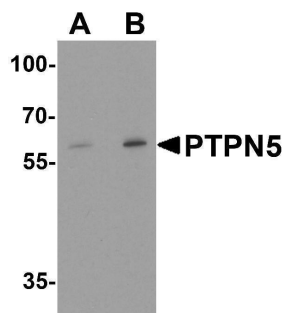
Product Name	Anti-PTPN5 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-PTPN5 Antibody (Catalog # A05405). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	PTPN5 antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	PTPN5 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Host	Rabbit
Uniprot ID	Q86TL6

### Technical Details

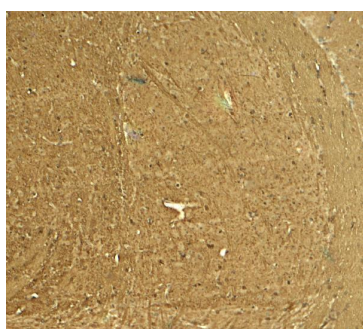
Immunogen	PTPN5 antibody was raised against an 18 amino acid peptide near the amino terminus of human PTPN5. The immunogen is located within amino acids 180 - 230 of PTPN5.
Predicted Reactive Species	Bovine
Cross Reactivity	PTPN5 antibody is human and mouse reactive.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	PTPN5 antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	PTPN5 antibody can be used for detection of PTPN5 by Western blot at 1 - 2 ug/ml. Antibody can

also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL.  
Antibody validated: Western Blot in human samples; Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

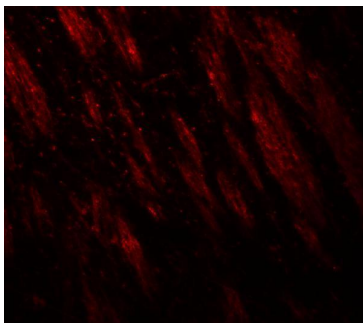
## Anti-PTPN5 Antibody (A05405) Images



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.

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Anti-PTPN5 Antibody

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