

Datasheet for ABIN392843

anti-PTPN5 antibody (N-Term)



[Go to Product page](#)

3 Images

Overview

Quantity:	400 µL
Target:	PTPN5
Binding Specificity:	AA 168-198, N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTPN5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This STEP / PTPN5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 168-198 amino acids from the N-terminal region of human STEP / PTPN5.
Clone:	RB00604
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	PTPN5
Alternative Name:	STEP / PTPN5 (PTPN5 Products)

Target Details

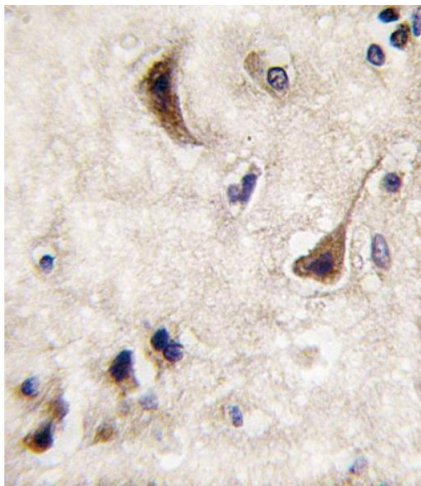
Background:	STEP (striatum-enriched phosphatase) is a neural-specific protein-tyrosine phosphatase, first isolated from the rat brain. The 537-amino acid predicted human protein as isolated from cDNA sequences is between 85 and 90 % identical to the mouse and rat sequences. In rat neuronal cell cultures, glutamate-mediated activation of N-methyl-D-aspartate (NMDA) receptors leads to the rapid but transient phosphorylation of extracellular signal-related kinase-2 (ERK2). NMDA-mediated influx of calcium, activates the calcium-dependent phosphatase calcineurin and the resulting dephosphorylation and activation of STEP. STEP then inactivatea ERK2 through tyrosine dephosphorylation and blocks translocation of the kinase to the nucleus. STEP plays a significant role in regulating the ERK activation and downstream signaling in neurons.
Molecular Weight:	63538
Gene ID:	84867
NCBI Accession:	NP_001035059 , NP_001265165 , NP_001265167 , NP_001265168 , NP_008837 , NP_116170
UniProt:	P54829

Application Details

Application Notes:	WB: 1:1000. WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

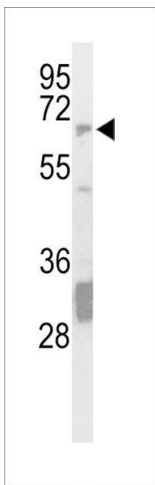
Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months



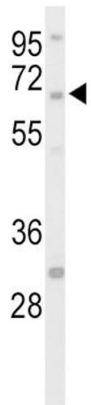
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human brain tissue reacted with STEP antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.



Western Blotting

Image 2. Western blot analysis of hSTEP- (ABIN392843 and ABIN2842266) in mouse brain tissue lysates (35 µg/lane). STEP (arrow) was detected using the purified Pab



Western Blotting

Image 3. Western blot analysis of hSTEP- (ABIN392843 and ABIN2842266) in HepG2 cell line lysates (35 µg/lane). STEP (arrow) was detected using the purified Pab.