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Datasheet for ABIN1390617

## anti-PTPN5 antibody (AA 201-300) (Alexa Fluor 350)

### Overview

Quantity:	100 µL
Target:	PTPN5
Binding Specificity:	AA 201-300
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTPN5 antibody is conjugated to Alexa Fluor 350
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human PTPN5
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Predicted Reactivity:	Mouse,Rabbit
Purification:	Purified by Protein A.

### Target Details

Target:	PTPN5
Alternative Name:	PTPN5/STEP ( <a href="#">PTPN5 Products</a> )

## Target Details

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Background:	<p>Synonyms: Neural specic protein tyrosine phosphatase, Neural-specific protein-tyrosine phosphatase, Protein tyrosine phosphatase non receptor type 5 striatum enriched, Protein tyrosine phosphatase non receptor type 5, Protein tyrosine phosphatase striatum enriched, PTN5, PTN5_HUMAN, PTP STEP, PTPN 5, Ptpn5, PTPSTEP, STEP, Striatum-enriched protein-tyrosine phosphatase, Tyrosine protein phosphatase non receptor type 5, Tyrosine-protein phosphatase non-receptor type 5, FLJ14427.</p> <p>Background: The brain-specific STEP (striatal enriched phosphatase) family of protein tyrosine phosphatases (PTPs) comprises both transmembrane and cytosolic protein members which are the products of alternative splicing. STEP family members are expressed in the dopaminergic neurons of the CNS, with highest expression in the basal ganglia and related structures. The STEP protein regulates the N-methyl-d-aspartate receptor (NMDAR) complex, STEP depresses both NMDAR single-channel activity and synaptic currents. The membrane-associated STEP61 isoform localizes in the postsynaptic densities (PSDs) of striatal neurons. STEP61 contains a single tyrosine phosphatase domain, two proline-rich domains and two transmembrane domains. The STEP61 protein associates with the Src family kinase member Fyn when Fyn is phosphorylated at Tyr-420 and not Tyr-431. Upon association, STEP61 dephosphorylates Tyr-420 residue and may thus regulate Fyn activity in PSDs. Isolated from mouse brain, the STEP20 isoform lacks the conserved tyrosine phosphatase domain. The human STEP gene maps to chromosome 11p15.2-p15.1.</p>
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## Application Details

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Application Notes:	IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

## Handling

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handled by trained staff only.

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Storage: -20 °C

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Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

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Expiry Date: 12 months