

Datasheet for 600-401-DU8**PTPN5 Antibody****Overview**

Description:	Anti-PTPN5 (RABBIT) Antibody - 600-401-DU8
Item No.:	600-401-DU8
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

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).
Synonyms:	Tyrosine-protein phosphatase non-receptor type 5, Neural-specific protein-tyrosine phosphatase, PTPSTEP, Striatum-enriched protein-tyrosine phosphatase, STEP
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PTPN5
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-PTPN5 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid peptide near the N-terminus of human PTPN5.

Purity/Specificity: Anti-PTPN5 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. PTPN5 antibody is human and mouse reactive.

Relevant Links:

- [UniProtKB - Q86TL6](#)
- [GeneID - 84867](#)
- [NCBI - NP_008837](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-PTPN5 Antibody has been tested for use in ELISA, immunohistochemistry, immunofluorescence, and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 67 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000 - 1:20,000

IF: 20 µg/mL

IHC: 5 µg/mL

WB: 1-2 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

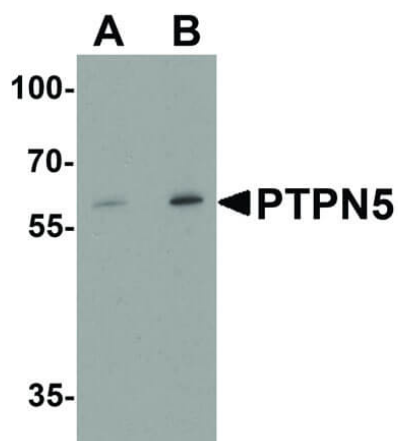
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Rabbit anti-PTPN5 antibody. Lane A: Jurkat cell lysate at 1 µg/mL. Lane B: Jurkat cell lysate at 2 µg/mL. Primary antibody: PTPN5 antibody overnight at 4°C. Secondary antibody: Goat anti-Rabbit HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 62 kDa, 60 kDa for PTPN5.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.