

Datasheet for ABIN2805694

**anti-PTPN5 antibody (AA 201-300) (AbBy Fluor® 594)**[Go to Product page](#)

## 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 AbBy Fluor® 594                                                                           |
| 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 dopaminoceptive 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<br>IF(IHC-F) 1:50-200<br>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