

Datasheet for ABIN7197593  
**PTPN2 Protein (AA 2-314) (His tag)**



[Go to Product page](#)

1 Image

## Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 100 µg                                       |
| Target:                       | PTPN2  |
| Protein Characteristics:      | AA 2-314                                     |
| Origin:                       | Mouse  |
| Source:                       | Baculovirus infected Insect Cells            |
| Protein Type:                 | Recombinant                                  |
| Biological Activity:          | Active                                       |
| Purification tag / Conjugate: | This PTPN2 protein is labelled with His tag. |

## Product Details

|                              |  |
|------------------------------|--|
| Purpose:                     | Recombinant Mouse PTPN2/PTPT Protein (aa 2-314, His Tag)(Active)   |
| Sequence:                    | Ser 2-Asn 314  |
| Characteristics:             | A DNA sequence encoding the mouse PTPN2 (Q06180-1) (Ser 2-Asn 314) was fused with a polyhistidine tag at the N-terminus.   |
| Purity:                      | > 90 % as determined by SDS-PAGE   |
| Endotoxin Level:             | < 1.0 EU per µg of the protein as determined by the LAL method.  |
| Biological Activity Comment: | Measured by its ability to dephosphorylate a phosphotyrosine residue in an EGF receptor 988-998 phosphopeptide substrate, R&D Systems, Catalog # ES006. The specific activity is > 15 nmoles/min/µg. |

## Target Details

---

|                   |  |
|-------------------|--|
| Target:           | PTPN2  |
| Alternative Name: | PTPN2/PTPT ( <a href="#">PTPN2 Products</a> )  |
| Background:       | <p>Background: Tyrosine-protein phosphatase non-receptor type 2, also known as T-cell protein-tyrosine phosphatase, PTPN2 and PTPT, is a cytoplasm protein which belongs to the protein-tyrosine phosphatase family and Non-receptor class 1 subfamily. Members of the protein tyrosine phosphatase ( PTP ) family share a highly conserved catalytic motif, which is essential for the catalytic activity. TC-PTP / PTPN2 is a cytosolic tyrosine phosphatase that functions as a negative regulator of a variety of tyrosine kinases and other signaling proteins. The expression of TC-PTP / PTPN2 plays a role of tumor suppressor and may modulate response to treatment. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. Epidermal growth factor receptor and the adaptor protein Shc were reported to be substrates of this PTP, which suggested the roles in growth factor mediated cell signaling. TC-PTP / PTPN2 is an enzyme that is essential for the proper functioning of the immune system and that participates in the control of cell proliferation, and inflammation. TC-PTP / PTPN2 was identified as a negative regulator of NUP214-ABL1 kinase activity.</p> <p>Synonym: A1325124;Ptpt;TC-PTP</p> |
| Molecular Weight: | 38.7 kDa   |
| Pathways:         | <a href="#">EGFR Signaling Pathway</a> , <a href="#">Carbohydrate Homeostasis</a> , <a href="#">Regulation of Carbohydrate Metabolic Process</a> , <a href="#">Platelet-derived growth Factor Receptor Signaling</a>   |

## Application Details

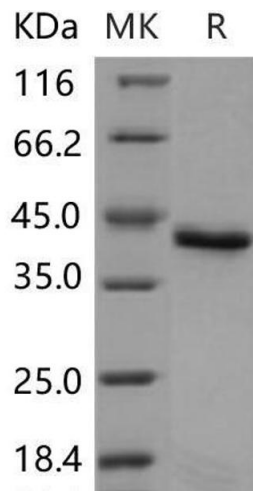
---

Restrictions: For Research Use only

## Handling

---

|                  |   |
|------------------|---|
| Format:          | Lyophilized   |
| Reconstitution:  | Please refer to the printed manual for detailed information.  |
| Buffer:          | Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 8.0, 20 % glycerol, 0.1 mM TCEP  |
| Storage:         | 4 °C,-20 °C,-80 °C  |
| Storage Comment: | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |



**Western Blotting**

**Image 1.**