



# Recombinant Protein Technical Manual

## Recombinant Human PTPN6/SH-PTP1 Protein (His Tag)

RPES3403

### Product Data:

**Product SKU:** RPES3403

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P29350-2

### Protein Information:

**Molecular Mass:** 35.4 kDa

**AP Molecular Mass:** 33 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 90 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

**Formulation:** Supplied as a 0.2 µm filtered solution of 25mM TrisHCl, 2mM β-ME, 1mM EDTA, 1mM DTT, 20% Glycerol, pH 7.5.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Tyrosine-Protein Phosphatase Non-Receptor Type 6; Hematopoietic Cell Protein-Tyrosine Phosphatase; Protein-Tyrosine Phosphatase 1C; PTPC; Protein-Tyrosine Phosphatase SHP; SH-PTP1; PTPN6; HCP; PTP1C

## Immunogen Information:

**Sequence:** Lys243-Ile541

## Background:

Protein-Tyrosine Phosphatase 1C (PTP1C) belongs to the protein-tyrosine phosphatase family, which is known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. PTP1C is highly expressed in leukocyte cell type. It contains two SH2 domains and one tyrosine-protein phosphatase domain. The SH2 regions may interact with other cellular components to modulate its own phosphatase activity against interacting substrates. In addition, PTP1C also modulates signaling by tyrosine phosphorylated cell surface receptors.