

**PTPN6 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2811c****Specification**

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**PTPN6 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P29350](#)**PTPN6 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 5777**Other Names**

Tyrosine-protein phosphatase non-receptor type 6, Hematopoietic cell protein-tyrosine phosphatase, Protein-tyrosine phosphatase 1C, PTP-1C, Protein-tyrosine phosphatase SHP-1, SH-PTP1, PTPN6, HCP, PTP1C

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2811c](/products/AP2811c) was selected from the Center region of human PTPN6. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**PTPN6 Antibody (Center) Blocking Peptide - Protein Information****Name** PTPN6**Synonyms** HCP, PTP1C**Function**

Modulates signaling by tyrosine phosphorylated cell surface receptors such as KIT and the EGF receptor/EGFR. The SH2 regions may interact with other cellular components to modulate its own phosphatase activity against interacting substrates. Together with MTUS1, induces UBE2V2 expression upon angiotensin II stimulation. Plays a key role in hematopoiesis.

**Cellular Location**

Cytoplasm. Nucleus. Note=In neurons, translocates into the nucleus after treatment with angiotensin II (By similarity) Shuttles between the cytoplasm and nucleus via its association with

PDPK1.

#### **Tissue Location**

Isoform 1 is expressed in hematopoietic cells. Isoform 2 is expressed in non-hematopoietic cells

#### **PTPN6 Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

#### **PTPN6 Antibody (Center) Blocking Peptide - Images**

#### **PTPN6 Antibody (Center) Blocking Peptide - Background**

PTPN6 is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. N-terminal part of this PTP contains two tandem Src homolog (SH2) domains, which act as protein phospho-tyrosine binding domains, and mediate the interaction of this PTP with its substrates. This PTP is expressed primarily in hematopoietic cells, and functions as an important regulator of multiple signaling pathways in hematopoietic cells. This PTP has been shown to interact with, and dephosphorylate a wide spectrum of phospho-proteins involved in hematopoietic cell signaling.

#### **PTPN6 Antibody (Center) Blocking Peptide - References**

Korporaal,S.J., Arterioscler. Thromb. Vasc. Biol. 29 (3), 372-379 (2009)Cho,Y.S., Am. J. Respir. Cell Mol. Biol. 39 (4), 412-419 (2008)Christophi,G.P., Lab. Invest. 88 (3), 243-255 (2008)Jones,M.L., J. Biol. Chem. 279 (39), 40475-40483 (2004)