

**PTPN6 Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2811C**

**Specification**

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**PTPN6 Antibody (Center) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IF, WB, IHC-P,E        |
| Primary Accession | <a href="#">P29350</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Isotype           | Rabbit IgG             |
| Calculated MW     | 67561                  |
| Antigen Region    | 247-277                |

**PTPN6 Antibody (Center) - 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**

This PTPN6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 247-277 amino acids from the Central region of human PTPN6.

**Dilution**

IF~~1:100  
WB~~1:1000  
IHC-P~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

PTPN6 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**PTPN6 Antibody (Center) - 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.

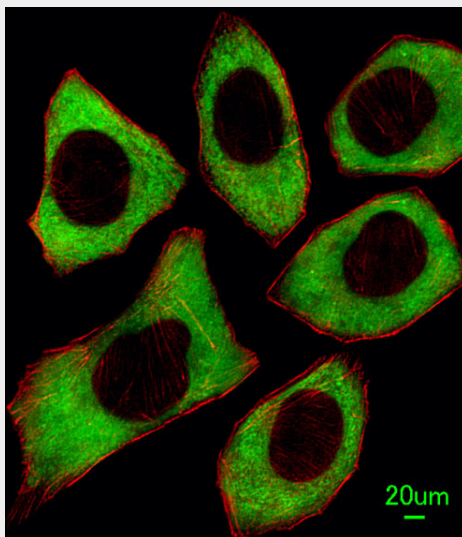
**Tissue Location**

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

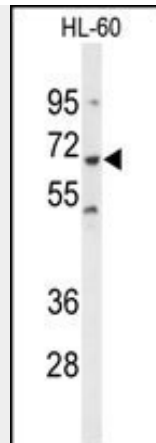
**PTPN6 Antibody (Center) - Protocols**

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

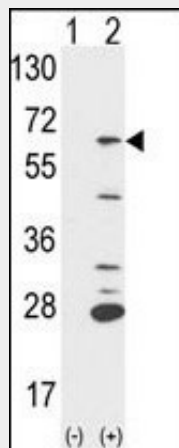
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**PTPN6 Antibody (Center) - Images**

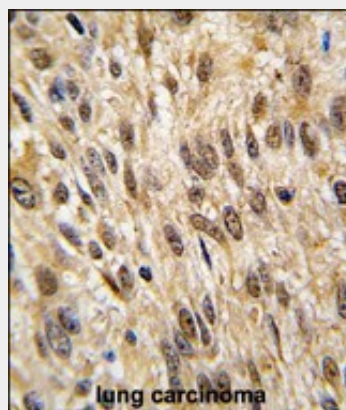
Immunofluorescent analysis of U251 cells, using PTPN6 Antibody (Center) (Cat. #AP2811c). AP2811c was diluted at 1:100 dilution. Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). DAPI was used to stain the cell nuclear (blue).



Western blot analysis of PTPN6 Antibody (Center) (Cat.#AP2811c) in HL-60 cell line lysates (35ug/lane). PTPN6 (arrow) was detected using the purified Pab.



Western blot analysis of PTPN6 (arrow) using rabbit polyclonal PTPN6 Antibody (Center) (Cat. #AP2811c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PTPN6 gene (Lane 2) (Origene Technologies). (2ug/ml)



Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with PTPN6 antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

#### PTPN6 Antibody (Center) - 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) - 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)