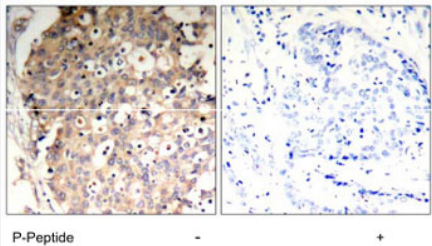


# PTPN6 (phospho Y536) polyclonal antibody

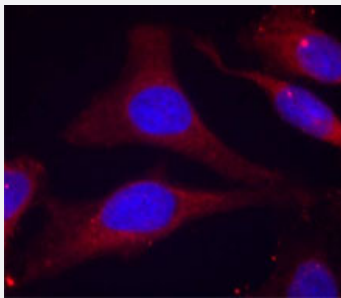
Catalog # PAB25887      Size 100 ug

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using PTPN6 (phospho Y536) polyclonal antibody (Cat # PAB25887).



### Immunofluorescence

Immunofluorescence staining of methanol-fixed HeLa cells using PTPN6 (phospho Y536) polyclonal antibody (Cat # PAB25887).

## Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of PTPN6.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding Y536 of human PTPN6.
Sequence	S-E-Yp-G-N
Host	Rabbit
Theoretical MW (kDa)	68
Reactivity	Human, Mouse, Rat
Form	Liquid

Purification	Affinity chromatography
Concentration	1 mg/mL
Recommend Usage	Immunohistochemistry (1:50-1:100) Immunofluorescence (1:100-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (without $Mg^{2+}$ and $Ca^{2+}$ ), 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using PTPN6 (phospho Y536) polyclonal antibody (Cat # PAB25887).

- Immunofluorescence

Immunofluorescence staining of methanol-fixed HeLa cells using PTPN6 (phospho Y536) polyclonal antibody (Cat # PAB25887).

## Gene Info — PTPN6

Entrez GeneID	<a href="#">5777</a>
Protein Accession#	<a href="#">P29350</a>
Gene Name	PTPN6
Gene Alias	HCP, HCPH, HPTP1C, PTP-1C, SH-PTP1, SHP-1, SHP-1L, SHP1
Gene Description	protein tyrosine phosphatase, non-receptor type 6
Omim ID	<a href="#">176883</a>
Gene Ontology	<a href="#">Hyperlink</a>

## Gene Summary

The protein encoded by this gene 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. Multiple alternatively spliced variants of this gene, which encode distinct isoforms, have been reported. [provided by RefSeq

## Other Designations

hematopoietic cell phosphatase|hematopoietic cell protein-tyrosine phosphatase|protein-tyrosine phosphatase 1C

## Publication Reference

- [SHP-1 acts as a key regulator of alloresponses by modulating LFA-1-mediated adhesion in primary murine T cells.](#)

Sauer MG, Herbst J, Diekmann U, Rudd CE, Kardinal C.

Molecular and Cell Biology 2016 Dec; 36(24):3113.

Application: Flow Cyt, Mouse, Mouse thymocytes

## Pathway

- [Adherens junction](#)
- [B cell receptor signaling pathway](#)
- [Jak-STAT signaling pathway](#)
- [Natural killer cell mediated cytotoxicity](#)
- [T cell receptor signaling pathway](#)

## Disease

- [Alzheimer disease](#)
- [Cerebral Amyloid Angiopathy](#)
- [Genetic Predisposition to Disease](#)
- [Lupus Erythematosus](#)

- [Neuroblastoma](#)