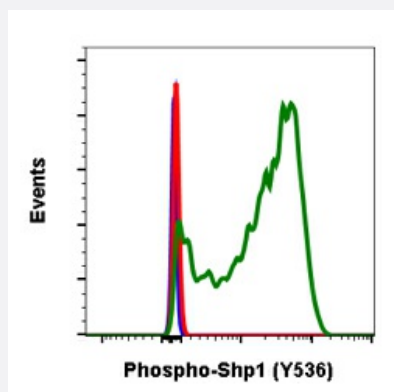


RecomAb™

# PTPN6 recombinant monoclonal antibody, clone Shp1Y536-2A7

Catalog # RAB02845      Size 200 uL

## Applications



### Flow Cytometry

Flow cytometric analysis of Ramos cells secondary antibody only negative control (blue) or untreated (red) or treated with pervanadate (green) using Phospho-Shp1 (Tyr536) antibody Shp1Y536-2A7 at 0.1 ug/mL.

## Specification

<b>Product Description</b>	Rabbit recombinant monoclonal antibody raised against human PTPN6.
<b>Antibody Species</b>	Rabbit
<b>Immunogen</b>	A synthetic phospho-peptide corresponding to residues surrounding Tyr536 of human phospho Shp1
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Protein A+G
<b>Isotype</b>	Rabbit IgG1k
<b>Recommend Usage</b>	Flow Cytometry The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	1X PBS, 0.02% Sodium azide, 50% Glycerol, 0.1% BSA

## 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

### ● Flow Cytometry

Flow cytometric analysis of Ramos cells secondary antibody only negative control (blue) or untreated (red) or treated with pervanadate (green) using Phospho-Shp1 (Tyr536) antibody Shp1Y536-2A7 at 0.1 ug/mL.

## Gene Info — PTPN6

**Entrez GeneID** [5777](#)

**Protein Accession#** [P29350](#)

**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** [176883](#)

**Gene Ontology** [Hyperlink](#)

### 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

## 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](#)