PTPN6 monoclonal antibody, clone PTY13

Catalog # MAB6404 Size 500 ug

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant PTPN6.
Immunogen	Recombinant protein corresponding to full length human PTPN6.
Host	Mouse
Theoretical MW (kDa)	67
Reactivity	Human
Specificity	This antibody recognizes single 67 KDa PTPN6 in human cells that express the enzyme and the SH2 (C) domain.
Form	Lyophilized
Isotype	IgG2b, kappa
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 10 mM PBS, pH 7.2
Storage Instruction	Store at -20°C. Aliquot after reconstitution to avoid repeated freezing and thawing.

Applications

- Western Blot
- Immunocytochemistry
- Enzyme-linked Immunoabsorbent Assay

Gene Info — PTPN6

Entrez GeneID	5777
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 c ell 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 prim arily 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 sp ectrum 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