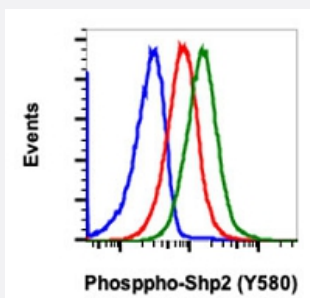


PTPN11 (phospho Y580) monoclonal antibody, clone 4A2 (APC)

Catalog # MAB21594 Size 100 Reactions

Applications



Flow Cytometry

Flow cytometric analysis of U937 cells with PTPN11 (phospho Y580) monoclonal antibody, clone 4A2 (APC) (Cat # MAB21594). Unstained as negative control (blue) or untreated (red) or treated with IFNα IL4 and pervanadate (green).

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic phosphopeptide of human PTPN11.
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Y580 of human PTPN11.
Host	Rabbit
Reactivity	Human
Form	Liquid
Conjugation	APC
Purification	Protein A/G purification
Isotype	IgG1, kappa
Recommend Usage	Flow Cytometry (5 μ L/ 10^6 cells) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.2% BSA, 0.09% sodium azide).
Storage Instruction	Store at 4°C.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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Gene Info — PTPN11

Entrez GeneID [5781](#)

Protein Accession# [Q06124](#)

Gene Name PTPN11

Gene Alias BPTP3, CFC, MGC14433, NS1, PTP-1D, PTP2C, SH-PTP2, SH-PTP3, SHP2

Gene Description protein tyrosine phosphatase, non-receptor type 11

Omim ID [151100](#) [163950](#) [176876](#) [607785](#)

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. This PTP contains two tandem Src homology-2 domains, which function as phospho-tyrosine binding domains and mediate the interaction of this PTP with its substrates. This PTP is widely expressed in most tissues and plays a regulatory role in various cell signaling events that are important for a diversity of cell functions, such as mitogenic activation, metabolic control, transcription regulation, and cell migration. Mutations in this gene are a cause of Noonan syndrome as well as acute myeloid leukemia. [provided by RefSeq]

Other Designations protein tyrosine phosphatase-2|protein-tyrosine phosphatase 2C

Pathway

- [Adipocytokine signaling pathway](#)
- [Chronic myeloid leukemia](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)

- [Jak-STAT signaling pathway](#)
- [Leukocyte transendothelial migration](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Neurotrophin signaling pathway](#)
- [Renal cell carcinoma](#)

Disease

- [Abnormalities](#)
- [Addison Disease](#)
- [Adenocarcinoma](#)
- [Arrhythmias](#)
- [Articulation Disorders](#)
- [Atrophy](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Colitis](#)
- [Craniofacial Abnormalities](#)
- [Crohn Disease](#)
- [Developmental Disabilities](#)
- [Disease Progression](#)
- [Down Syndrome](#)
- [Ductus Arteriosus](#)

- [Dyslexia](#)
- [Ectodermal Dysplasia](#)
- [Esophageal Neoplasms](#)
- [Gastritis](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)
- [Growth Disorders](#)
- [Hearing](#)
- [Hearing Loss](#)
- [Heart Defects](#)
- [Heart Septal Defects](#)
- [Helicobacter Infections](#)
- [Hematologic Diseases](#)
- [Hypertrophy](#)
- [Infant](#)
- [Language Disorders](#)
- [LEOPARD Syndrome](#)
- [Leukemia](#)
- [Lymphedema](#)
- [Memory](#)
- [Metaplasia](#)
- [Mitochondrial Diseases](#)
- [Motor Skills](#)
- [Motor Skills Disorders](#)
- [Myeloproliferative Disorders](#)
- [Neurofibromatoses](#)

- [Neurofibromatosis](#)
- [Neurofibromatosis 1](#)
- [Neuropsychological Tests](#)
- [Noonan Syndrome](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Peptic Ulcer](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Pulmonary Valve Stenosis](#)
- [Skin Abnormalities](#)
- [Stomach Neoplasms](#)
- [Syndrome](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)