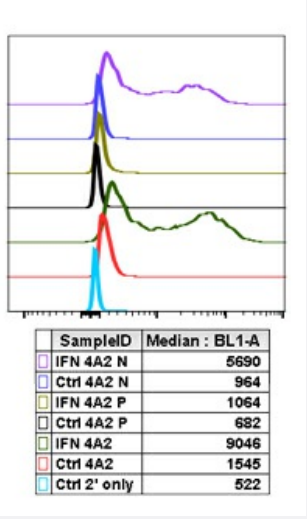
RecomAb™

PTPN11 recombinant monoclonal antibody, clone Shp2Y580-4A2

Catalog # RAB02797 Size 200 uL

Applications



Flow Cytometry

Peptide blocking flow cytometric analysis of THP1 cells secondary antibody only negative control (light blue) or untreated (red) or treated with IFNa + IL-4 + pervanadate (green) or untreated and blocked with phospho-peptide (black) or treated and blocked with phospho peptide (gold) or untreated and blocked with non-phospho peptide (dark blue) or treated and blocked with non-phospho peptide (purple) using Phospho-Shp2 (Tyr580) antibody Shp2Y580-4A2 at 0.1 ug/mL.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human PTPN11.
Antibody Species	Rabbit
Immunogen	A synthetic phospho-peptide corresponding to residues surrounding Tyr580 of human phospho Shp2
Reactivity	Human
Form	Liquid
Purification	Protein A+G
Isotype	Rabbit IgG1k
Recommend Usage	Flow Cytometry The optimal working dilution should be determined by the end user.

Storage Buffer	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 shoul d be handled by trained staff only.

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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 c ell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains two tand em Src homology-2 domains, which function as phospho-tyrosine binding domains and mediate t he interaction of this PTP with its substrates. This PTP is widely expressed in most tissues and pl ays a regulatory role in various cell signaling events that are important for a diversity of cell functio ns, such as mitogenic activation, metabolic control, transcription regulation, and cell migration. Mu tations in this gene are a cause of Noonan syndrome as well as acute myeloid leukemia. [provide d 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