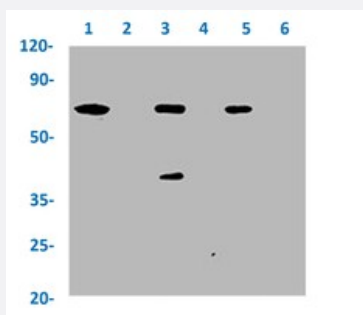


RecomAb™

PTPN11 (phospho Y542) recombinant monoclonal antibody, clone 2E2

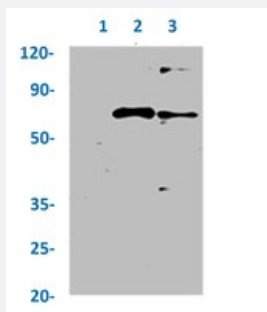
Catalog # RAB04249 Size 100 uL

Applications



Western Blot

Western blot analysis of Lane 1: HeLa whole cell lysate (treated with Pervanadate), Lane 2: HeLa whole cell lysate (not treated), Lane 3: 293 whole cell lysate (treated with Pervanadate), Lane 4: 293 whole cell lysate (not treated), Lane 5: A549 whole cell lysate (treated with Pervanadate) and Lane 6: A549 whole cell lysate (not treated) with PTPN11 (phospho Y542) recombinant monoclonal antibody, clone 2E2 (Cat # RAB04249).



Immunoprecipitation

Immunoprecipitation analysis of HeLa cell lysate with PTPN11 (phospho Y542) recombinant monoclonal antibody, clone 2E2 (Cat # RAB04249). Lane 1: rabbit control IgG, Lane 2: RAB04249 precipitates and Lane 3 : Input (HeLa whole cell lysates).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human PTPN11.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surrounding Y542 of human PTPN11.
Theoretical MW (kDa)	Calculated MW: 68 kD
Reactivity	Human

Form	Liquid
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunoprecipitation (1:200-1:1000) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at -20 °C or -80 °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

- Western Blot

Western blot analysis of Lane 1: HeLa whole cell lysate (treated with Pervanadate), Lane 2: HeLa whole cell lysate (not treated), Lane 3: 293 whole cell lysate (treated with Pervanadate), Lane 4: 293 whole cell lysate (not treated), Lane 5: A549 whole cell lysate (treated with Pervanadate) and Lane 6: A549 whole cell lysate (not treated) with PTPN11 (phospho Y542) recombinant monoclonal antibody, clone 2E2 (Cat # RAB04249).

- Immunoprecipitation

Immunoprecipitation analysis of HeLa cell lysate with PTPN11 (phospho Y542) recombinant monoclonal antibody, clone 2E2 (Cat # RAB04249).

Lane 1: rabbit control IgG, Lane 2: RAB04249 precipitates and Lane 3 : Input (HeLa whole cell lysates).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — PTPN11

Entrez GeneID	5781
Protein Accession#	Q06124
Gene Name	PTPN11
Gene Alias	BTP3, 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](#)
- [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](#)