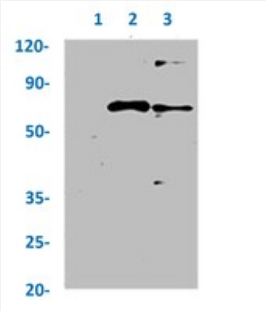
RecomAb™ Sm Size

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

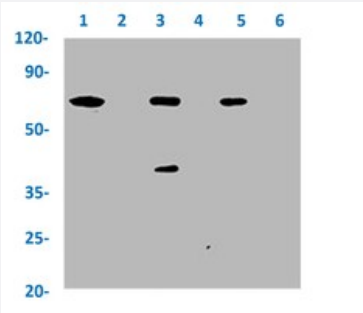
Catalog # RAB08064 Size 50 uL

Applications



Immunoprecipitation

Immunoprecipitation analysis of HeLa cell lysate with PTPN11 (phospho Y542) recombinant monoclonal antibody.
Lane 1: rabbit control IgG,
Lane 2: RAB08064 precipitates and
Lane 3 : Input (Hela whole cell lysates).



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.

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.

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Theoretical MW (kDa)	Calculated MW: 68 kD
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
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 shoul d be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay

- Immunoprecipitation

  Immunoprecipitation analysis of HeLa cell lysate with PTPN11 (phospho Y542) recombinant monoclonal antibody.
  Lane 1: rabbit control IgG,
  Lane 2: RAB08064 precipitates and
  Lane 3 : Input (Hela whole cell lysates).

- 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.

Gene Info — PTPN11

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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

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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

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- 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

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- Ovarian Failure
- Pancreatic cancer
- Pancreatic Neoplasms
- Peptic Ulcer
- Polycystic Ovary Syndrome
- Puberty
- Pulmonary Valve Stenosis
- Skin Abnormalities
- Stomach Neoplasms
- Syndrome
- Thrombophilia
- Tobacco Use Disorder

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