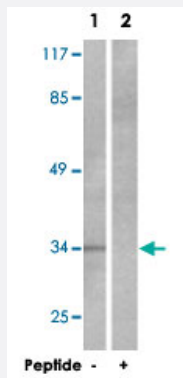


PTPN11 polyclonal antibody

Catalog # PAB18107 Size 100 ug

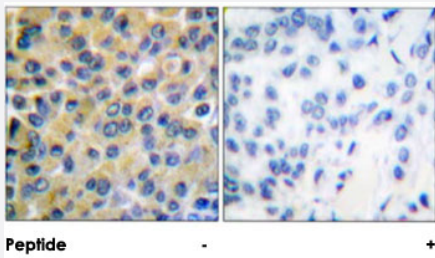
Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from A-431 cells, using PTPN11 polyclonal antibody (Cat # PAB18107).

Peptide "+" means "peptide blocking".



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using PTPN11 polyclonal antibody (Cat # PAB18107).

Peptide "+" means "peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PTPN11.
Immunogen	A synthetic peptide corresponding to human PTPN11.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody is specific to PTPN11.
Form	Liquid

Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:20000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
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 should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from A-431 cells, using PTPN11 polyclonal antibody (Cat # PAB18107).
Peptide "+" means "peptide blocking".

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Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using PTPN11 polyclonal antibody (Cat # PAB18107).
Peptide "+" means "peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

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

Publication Reference

- [IQGAP1 mediates VE-cadherin-based cell-cell contacts and VEGF signaling at adherence junctions linked to angiogenesis.](#)

Yamaoka-Tojo M, Tojo T, Kim HW, Hilenski L, Patrushev NA, Zhang L, Fukai T, Ushio-Fukai M.
Arteriosclerosis, Thrombosis, and Vascular Biology 2006 Sep; 26(9):1991.

- [The association between integrin-associated protein and SHPS-1 regulates insulin-like growth factor-I receptor signaling in vascular smooth muscle cells.](#)

Maile LA, Badley-Clarke J, Clemmons DR.
Molecular Biology of the Cell 2003 Sep; 14(9):3519.

Application: WB, Human, Vascular smooth muscle cells

- [Insulin receptor substrate-1-mediated enhancement of growth hormone-induced mitogen-activated protein kinase activation.](#)

Liang L, Jiang J, Frank SJ.
Endocrinology 2000 Sep; 141(9):3328.

Application: WB-Tr, Mouse, 32D-rbGHR, 32D-rbGHR-IRS-1 cells

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](#)