

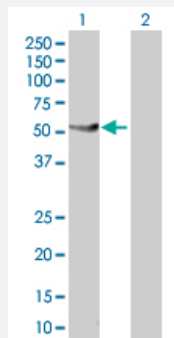
MaxPab®

PTPN1 purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00005770-D01P

Size 100 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of PTPN1 expression in transfected 293T cell line ([H00005770-T01](#)) by PTPN1 MaxPab polyclonal antibody.

Lane 1: PTPN1 transfected lysate(50.00 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Rabbit polyclonal antibody raised against a full-length human PTPN1 protein.

Immunogen

PTPN1 (NP_002818.1, 1 a.a. ~ 435 a.a) full-length human protein.

Sequence

MEMEKEFEQIDKSGSWAAYQDIRHEASDFPCRVAKLPKNKNRNYRDVSPFDHSRIKLHQEDND
YINASLIKMEEAQRSYLTQGPLPNTCGHFWEMVWEQKSRGVVMLNRVMEKGLKCAQYWPQKE
EKEMIFEDTNLKLTLISEDIKSYTVRQLELENLTQETREILHFHYTTWPDFGVPEPASFLNFLFK
VRESGSLSPEHGPPVVVHCSAGIGRSGTFCLADTCLLLMDKRKDPSSVDIKKVLLEMFRMGLIQ
TADQLRFSYLAVIEGAKFIMGDSSVQDQWKELSHEDLEPPPEHIPPPrPPKRILEPHNGKCREF
FPNHQWVKEETQEDKDCPIKEEKGSPNLAAPYGIESMSQDTEVRSRVVGGSLRGAQAASPAKG
EPSLPEKDEDHLSYWKPFVLNMCVATVLTAGAYLCYRFLFNSNT

Host

Rabbit

Reactivity

Human

Quality Control Testing

Antibody reactive against mammalian transfected lysate.

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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[Protocol Download](#)

Gene Info — PTPN1

Entrez GeneID [5770](#)

GeneBank Accession# [NM_002827.2](#)

Protein Accession# [NP_002818.1](#)

Gene Name PTPN1

Gene Alias PTP1B

Gene Description protein tyrosine phosphatase, non-receptor type 1

Omim ID [176885 609830](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene is the founding member of the protein tyrosine phosphatase (PTP) family, which was isolated and identified based on its enzymatic activity and amino acid sequence. PTPs catalyze the hydrolysis of the phosphate monoesters specifically on tyrosine residues. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. 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 has been shown to act as a negative regulator of insulin signaling by dephosphorylating the phosphotyrosine residues of insulin receptor kinase. This PTP was also reported to dephosphorylate epidermal growth factor receptor kinase, as well as JAK2 and TYK2 kinases, which implicated the role of this PTP in cell growth control, and cell response to interferon stimulation. [provided by RefSeq]

Other Designations

OTTHUMP00000031266|non-receptor tyrosine phosphatase 1|protein tyrosine phosphatase 1B|protein tyrosine phosphatase, placental

Pathway

- [Adherens junction](#)
- [Insulin signaling pathway](#)

Disease

- [Albuminuria](#)
- [Alzheimer disease](#)
- [Arteriosclerosis](#)
- [Atherosclerosis](#)
- [Atrophy](#)
- [Calcinosis](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Cerebrovascular Disorders](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Diabetic Retinopathy](#)
- [Dyslipidemias](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [Helicobacter Infections](#)
- [Hypertension](#)
- [Insulin Resistance](#)

- [Kidney Failure](#)
- [Lymphoma](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Noonan Syndrome](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Ovarian Neoplasms](#)
- [Peripheral Vascular Diseases](#)
- [Pulmonary Valve Stenosis](#)
- [Stomach Neoplasms](#)
- [Syndrome](#)