

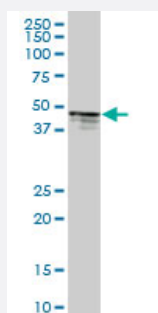
MaxPab®

PTPN1 MaxPab mouse polyclonal antibody (B01)

Catalog # H00005770-B01

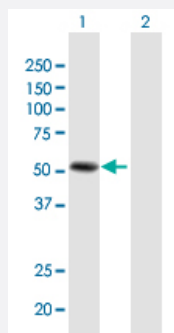
Size 50 uL

Applications



Western Blot (Tissue lysate)

PTPN1 MaxPab polyclonal antibody. Western Blot analysis of PTPN1 expression in human spleen.



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(47.85 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Mouse 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

MEMEKEFEQIDKSGSWAAIYQDIRHEADFPCRVAKLPKNKNRNRVSPFDHSRIKLHQEDND
YINASLIKMEEAQRSYLTQGPLPNTCGHFWEMVWEQKSRGVVMLNRMVMEKGLKCAQYWPQKE
EKEMIFEDTNLKLTLISEDIKSYTVRQLELENLTQETREILHFHYTTWPDFGVPESPASFLNFLFK
VRESGSLSPEHGPVVVHCSAGIGRSGTFCLADTCLLLMDKRKDPSSVDIKKVLLMRKFRMGLIQ
TADQLRFSYLAVIEGAKFIMGDSSVQDQWKELSHEDLEPPPEHIPPPRPPKRILEPHNGKCREF
FPNHQWVKEETQEDKDCPIKEEKGSPLNAAPIYGIESMSQDTEVRSRVVGGSLRGAQAASPAKG
EPSLPEKDEDHLSYWKPFVLNMCVATVLTAGAYLCYRFLFNSNT

Host	Mouse
Reactivity	Human
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	No additive
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	For IHC and IF applications, antibody purification with Protein A will be needed prior to use.

Applications

- Western Blot (Tissue lysate)

PTPN1 MaxPab polyclonal antibody. Western Blot analysis of PTPN1 expression in human spleen.

[Protocol Download](#)

- Western Blot (Transfected lysate)

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

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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](#)