

DNAxPAb

Hard-to-Find
Antibody

PTPN1 DNAxPab

Catalog # H00005770-W01P

Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human PTPN1 DNA using DNAx™ Immune technology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MEMEKEFEQIDKSGSWAAIYQDIRHEASDFPCRVAKLPKNKNRNRVSPFDHSRIKLHQEDND YINASLIKMEEAQRSYL TQGPLPNTCGHFWEMVWEQKSRGVVMLNRVMEKGSCLKCAQYWPQKE EKEMIFEDTNLKLTLISEDIKSYTVRQLELENLTQTETREILHFHYTTWPDFGVPESPASFLNFLK VRESGSLSPEHGPPVVHCSAGIGRSGTFCLADTCLLLMDKRKDPSSVDIKKVLLEMRFMRGLIQ TADQLRFSYLAVIEGAKFIMGDSSVQDQWKELSHEDLEPPPEHIPPPrPPKRILEPHNGKCREF FPNHQWVKEETQEDKDCPIKEEKGSPNAAPYGIESMSQDTEVRSRVVGGSLRGAQAASPAKG EPSLPEKDEDHALS YWKPFVLNMCVATVLTAGAYLCYRFLFNSNT
Host	Rabbit
Reactivity	Human
Purification	Protein A
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.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)

- Flow Cytometry (Transfected cell)

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](#)