

Recombinant Human PTPN1 293 Cell Lysate

Cat. No. PTPN1-2686HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for protein tyrosine phosphatase, non-receptor type 1 (PTPN1) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

[PTPN1 protein tyrosine phosphatase, non-receptor type 1 \[Homo sapiens \]](#)

Official Symbol

PTPN1

Synonyms

PTPN1; protein tyrosine phosphatase, non-receptor type 1; PTP1B; tyrosine-protein phosphatase non-receptor type 1; protein tyrosine phosphatase 1B; protein-tyrosine phosphatase 1B; protein tyrosine phosphatase, placental;

Gene ID

[5770](#)

mRNA Refseq

[NM_002827](#)

Protein Refseq

[NP_002818](#)

MIM

[176885](#)

UniProt ID

[P18031](#)

**Chromosome
Location**

20q13.1-q13.2

Pathway

Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Calcineurin-regulated NFAT-dependent transcription in lymphocytes, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; EGF receptor (ErbB1) signaling pathway, organism-specific

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biosystem; Growth hormone receptor signaling, organism-specific biosystem;
Hemostasis, organism-specific biosystem;

Function

ephrin receptor binding; hydrolase activity; insulin receptor binding; protein binding;
protein tyrosine phosphatase activity; protein tyrosine phosphatase activity; zinc ion
binding;

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