

# Recombinant Human Protein Tyrosine Phosphatase, Receptor Type, F

**Cat. No.** PTPRF-1911H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant humanPTPRF is expressed in E. coli; it contains the catalytic domain of PTPRF(residues 1330-1620) and has a molecular weight of 32 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1330-1620 a.a.
<b>Description</b>	PTPRF (leukocyteantigen related protein tyrosine phophatase) belongs to the protein-tyrosinephosphatase family, receptor class 2A subfamily. It possesses an intrinsicprotein tyrosine phosphatase activity (PTPase). The first PTPase domain hasenzymatic activity, while the second one seems to affect the substratespecificity of the first one. It is a possible cell adhesion receptor; itinteracts with GRIP1 (by similarity), PPFIA1, PPFIA2 and PPFIA3. Human PTPRFis a receptor protein tyrosine phosphatase containing 1897 amino acids.
<b>Form</b>	25 mM Tris-HCl (pH8.0), 75 mM NaCl, 0.05% Tween-20, 2 mM EDTA, 1 mM DTT and 50% glycerol.Liquid at -20°C.
<b>Purity</b>	Greater than 95% asdetermined by Coomassie-stained SDS-PAGE gel.
<b>Specific Activity</b>	1.2 U/μg. One unitwill hydrolyze 1 nmol of p-nitrophenyl phosphate per minute at pH 7.4 and30°C. Assay buffer: 50 mM HEPES (pH 7.4), 2 mM EDTA, 3 mM DTT, 100

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mM NaCl and 50 mM pNPP.

**Applications**

Removal of phosphates from target substrates. Useful for the study of enzyme kinetics, regulation and for inhibitors screening.

**Storage**

6 months at -20°C.

**Pathways**

Adherens junction; Cell adhesion molecules (CAMs); Insulin Signaling; Insulin signaling pathway

## GENE INFORMATION

**Gene Name**

PTPRF protein tyrosine phosphatase, receptor type, F [ Homo sapiens ]

**Official Symbol**

PTPRF

**Synonyms**

PTPRF; protein tyrosine phosphatase, receptor type, F; LAR; receptor-tyrosine-protein phosphatase F; LCA-homolog; OTTHUMP00000008683; OTTHUMP00000008684; OTTHUMP00000008688; OTTHUMP00000192913; OTTHUMP00000192914; leukocyte common antigen related; leukocyte antigen-related (LAR) PTP receptor; leukocyte antigen-related tyrosine phosphatase; receptor-linked protein-tyrosine phosphatase LAR; protein tyrosine phosphatase, receptor type, F polypeptide

**Gene ID**

5792

**mRNA Refseq**

NM\_002840

**Protein Refseq**

NP\_002831

**MIM**

179590

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<b>UniProt ID</b>	P10586
<b>Chromosome Location</b>	1p34
<b>Function</b>	hydrolase activity;insulin receptor binding; phosphate ion binding; protein tyrosine phosphataseactivity; receptor activity; receptor tyrosine kinase binding; transmembranereceptor protein tyrosine phosphatase activity
<b>PDB rendering basedon 1lar.</b>	

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