

Recombinant Human Protein Tyrosine Phosphatase, Receptor Type, F

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	1330-1620 a.a.
Description	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.
Form	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.
Purity	Greater than 95% asdetermined by Coomassie-stained SDS-PAGE gel.
Specific Activity	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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UniProt ID	P10586
Chromosome Location	1p34
Function	hydrolase activity;insulin receptor binding; phosphate ion binding; protein tyrosine phosphataseactivity; receptor activity; receptor tyrosine kinase binding; transmembranereceptor protein tyrosine phosphatase activity

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