

Active Recombinant Human PTPRF, GST-tagged

Cat. No. PTPRF-1524H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PTPRF (1275-1897) was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
ProteinLength	1275-1897 aa
Description	PTPRF or LAR is a member of the protein tyrosine phosphatase family with an extracellular region, a single transmembrane region, and two tandem intracytoplasmic catalytic domains. PTPRF has been shown to function in the regulation of epithelial cell-cell contacts at adherents junctions as well as in the control of beta-catenin signaling. An increased expression level of this protein was found in the insulin-responsive tissue of obese, insulin-resistant individuals, and may contribute to the pathogenesis of insulin resistance.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	454 nmol/min/mg
Molecular Mass	~93 kDa
Purity	>90%

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Applications	Phosphatase Assay, Western Blot
Storage	Store at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1 µg/µl
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-type tyrosine-protein phosphatase F; LCA-homolog; 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; FLJ43335; FLJ45062; FLJ45567;
Gene ID	5792
mRNA Refseq	NM_002840
Protein Refseq	NP_002831
MIM	179590
UniProt ID	P10586
Chromosome Location	1p34

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Pathway

Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Insulin Signaling, organism-specific biosystem; Insulin signaling pathway, organism-specific biosystem; Insulin signaling pathway, conserved biosystem;

Function

hydrolase activity; insulin receptor binding; phosphate ion binding; protein tyrosine phosphatase activity; receptor activity; receptor tyrosine kinase binding; transmembrane receptor protein tyrosine phosphatase activity;

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