Recombinant Human PTPRF, Catalytic Domain

Cat. No. PTPRF-714H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PTPRF was expressed in*E.Coli.*
Species	Human
Source	E.coli
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.
Biochem/Physiol Actions	LAR, a leukocyte antigen related protein, is a transmembrane receptor-like protein tyrosine phosphatase (PTPase). Its cytoplasmic domain comprises two tandem domains possessing PTPase homology. Only one domain, LAR-D1, has phosphatase activity.
Analysis Note	LAR-D1 catalytic domain comprises amino acids 1275-1613.
Physical Form	Solution containing 10 mM imidazole, pH 7.0, 2 mM EDTA, 5 mM DTT, 0.1 M NaCl, and 50% glycerol.
Assay	≥95% (SDS-PAGE).

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Form	Buffered aqueous glycerol solution.
Storage Temp	−70°C.

GENE INFORMATION

Gene Name	PTPRF protein tyrosine phosphatase, receptor type, F [Homo sapiens]
Synonyms	PTPRF; protein tyrosine phosphatase, receptor type, F; LCA-homolog; OTTHUMP00000008683; OTTHUMP00000008684; leukocyte antigen-related (LAR) PTP receptor; leukocyte antigen-related tyrosine phosphatase; protein tyrosine phosphatase, receptor type, F polypeptide; receptor-linked protein-tyrosine phosphatase LAR; LAR; FLJ43335; FLJ45062; FLJ45567; EC 3.1.3.48
Gene ID	5792
mRNA Refseq	NM_002840
Protein Refseq	NP_002831
MIM	179590
UniProt ID	P10586
Chromosome Location	1p34
Pathway	Adherens junction; Cell adhesion molecules (CAMs); Insulin signaling pathway
Function	heparan sulfate proteoglycan binding; heparin binding; hydrolase activit; protein binding; protein kinase binding; transmembrane receptor protein tyrosine

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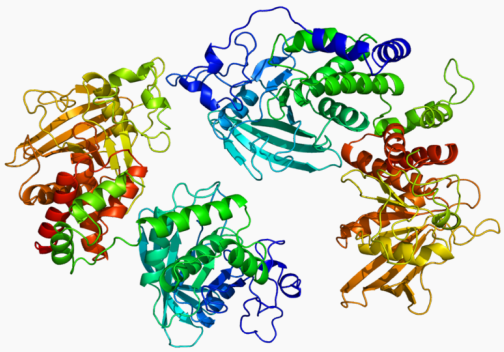
	phosphatase activity
PDB rendering based on 1lar.	

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