

## Recombinant Human PTPRF, Catalytic Domain

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant human PTPRF was expressed in <i>E.Coli</i> .
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Biochem/Physiol Actions</b>	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.
<b>Analysis Note</b>	LAR-D1 catalytic domain comprises amino acids 1275-1613.
<b>Physical Form</b>	Solution containing 10 mM imidazole, pH 7.0, 2 mM EDTA, 5 mM DTT, 0.1 M NaCl, and 50% glycerol.
<b>Assay</b>	≥95% (SDS-PAGE).

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<b>Form</b>	Buffered aqueous glycerol solution.
<b>Storage Temp</b>	-70°C.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">PTPRF protein tyrosine phosphatase, receptor type, F [ Homo sapiens ]</a>
<b>Synonyms</b>	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
<b>Gene ID</b>	<a href="#">5792</a>
<b>mRNA Refseq</b>	<a href="#">NM_002840</a>
<b>Protein Refseq</b>	<a href="#">NP_002831</a>
<b>MIM</b>	<a href="#">179590</a>
<b>UniProt ID</b>	<a href="#">P10586</a>
<b>Chromosome Location</b>	1p34
<b>Pathway</b>	Adherens junction; Cell adhesion molecules (CAMs); Insulin signaling pathway
<b>Function</b>	heparan sulfate proteoglycan binding; heparin binding; hydrolase activit; protein binding; protein kinase binding; transmembrane receptor protein tyrosine

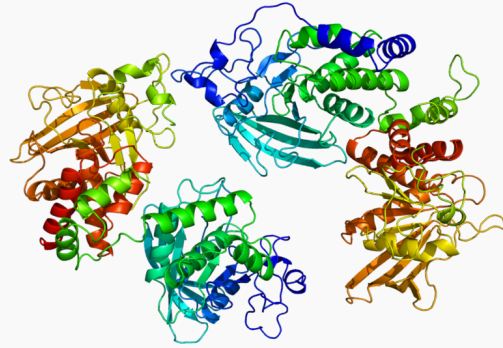
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phosphatase activity

PDB rendering based  
on 1lar.



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