

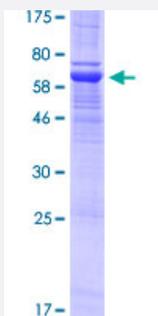
Full-Length

# PTPRF (Human) Recombinant Protein (P01)

Catalog # H00005792-P01

Size 10 ug, 25 ug

## Applications



## Specification

### Product Description

Human PTPRF full-length ORF ( ENSP00000361488, 1 a.a. - 353 a.a.) recombinant protein with GS T-tag at N-terminal.

### Sequence

MAPEPAPGRTM/PLVPALVMLGLVAGAHGDSKPVFIKVPEDQTGLSGGVASFVCQATGEPKPRI  
 TWMKKGKKVSSQRFEVIEFDDGAGSVLRIQPLRVQRDEAMECTATNSLGEINTSAKLSVLEEEQL  
 PPGFPSIDMGPQLKVVEKARTATMLCAAGGNPDPEISWFKDFLPVDPATSNRIKQLRSGGSP  
 GALQIESSEESDQGYECVATNSAGTRYSAPANLYVRGKDSGSAWPLSPQSCAAPAGLSAQSP  
 WCRHARDCHGPSLFSFLLLSAAAATAPTGQVPGVCHYFAFLPCRPMGKQPLLGAFVSFVGLAA  
 WARSPMGIWSPHPIRLLGVCACVCAHTGTLICV

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

63.7

### Preparation Method

[in vitro wheat germ expression system](#)

### Purification

Glutathione Sepharose 4 Fast Flow

### Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

### Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

### Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Note**

Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — PTPRF

**Entrez GeneID**
[5792](#)
**GeneBank Accession#**
[ENST00000372411](#)
**Protein Accession#**
[ENSP00000361488](#)
**Gene Name**

PTPRF

**Gene Alias**

FLJ43335, FLJ45062, FLJ45567, LAR

**Gene Description**

protein tyrosine phosphatase, receptor type, F

**Omim ID**
[179590](#)
**Gene Ontology**
[Hyperlink](#)
**Gene Summary**

The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP possesses an extracellular region, a single transmembrane region, and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. The extracellular region contains three Ig-like domains, and nine non-Ig like domains similar to that of neural-cell adhesion molecule. This PTP was 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. Two alternatively spliced transcript variants of this gene, which encode distinct proteins, have been reported. [provided by RefSeq]

**Other Designations**

LCA-homolog|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

## Pathway

- [Adherens junction](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Insulin signaling pathway](#)

## Disease

- [Diabetes Mellitus](#)
- [Insulin Resistance](#)
- [Obesity](#)