

## Recombinant Human PTPRS, GST-tagged, Active

**Cat. No.** PTPRS-470H    **Lot. No.** (See product label)

### SPECIFICATION

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>      | Recombinant human PTPRS (883-1201) was expressed in <i>E. Coli</i> using an N-terminal GST tag. MW=63kDa.                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>               | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>                | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Length</b>        | 883-1201 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>           | PTPRS is a member of a subfamily of receptor type PTPases that is characterized by the presence of an extracellular cell adhesion molecule-like motif and 2 intracellular phosphatase domains. The extracellular region of this protein is composed of multiple Ig-like and fibronectin type III-like domains. Studies of the similar gene in mice suggested that this PTP may be involved in cell-cell interaction, primary axonogenesis, and axon guidance during embryogenesis. |
| <b>Sequence</b>              | 883-1201.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Applications</b>          | Kinase Assay, Western Blot.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage And Stability</b> | Store product at $-70^{\circ}\text{C}$ . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.                                                                                                                                                                                                                           |
| <b>22q13.33</b>              | 19p13.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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## GENE INFORMATION

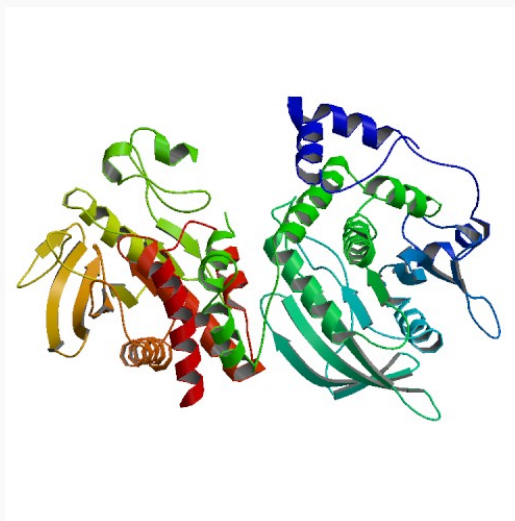
|                       |                                                                                                                                                                                 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>      | PTPRS protein tyrosine phosphatase, receptor type, S [ Homo sapiens ]                                                                                                           |
| <b>Synonyms</b>       | PTPRS; protein tyrosine phosphatase, receptor type, S; PTPSIGMA; protein tyrosine phosphatase, receptor type, sigma; protein tyrosine phosphatase PTPsigma; EC 3.1.3.48         |
| <b>Gene ID</b>        | 5802                                                                                                                                                                            |
| <b>mRNA Refseq</b>    | NM_002850                                                                                                                                                                       |
| <b>Protein Refseq</b> | NP_002841                                                                                                                                                                       |
| <b>MIM</b>            | 601576                                                                                                                                                                          |
| <b>UniProt ID</b>     | Q13332                                                                                                                                                                          |
| <b>Function</b>       | heparan sulfate proteoglycan binding; heparin binding; hydrolase activit; protein binding; protein kinase binding; transmembrane receptor protein tyrosine phosphatase activity |

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on 2fh7.



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