

Recombinant Human PTPRM , GST-tagged

Cat. No. PTPRM-7017H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PTPRM (764-1452) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	764-1452 aa
Description	<p>PTPRM is a member of the protein tyrosine phosphatase family and can participate in a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. PTPRM has been shown to mediate cell-cell aggregation through the interaction with another molecule of PTPRM on an adjacent cell. PTPRM can interact with scaffolding protein RACK1/GNB2L1 and this interaction may be necessary for downstream signaling in response to cell-cell adhesion. PTPRM has been shown to be expressed in human pulmonary vascular endothelia where it directly binds to VE-cadherin and regulates both the tyrosine phosphorylation state of VE-cadherin and barrier integrity.</p>
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.
Molecular Mass	~110 kDa
Purity	>90%

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Applications	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	0.2 $\mu\text{g}/\mu\text{l}$
GENE INFORMATION	
Gene Name	PTPRM protein tyrosine phosphatase, receptor type, M [Homo sapiens]
Official Symbol	PTPRM
Synonyms	PTPRM; protein tyrosine phosphatase, receptor type, M; PTPRL1; receptor-type tyrosine-protein phosphatase mu; hR PTPu; RPTPU; protein tyrosine phosphatase mu; protein-tyrosine phosphatase mu; protein tyrosine phosphatase, receptor type, mu polypeptide; RPTPM; hR-PTPu; R-PTP-MU; MGC166994;
Gene ID	5797
mRNA Refseq	NM_001105244
Protein Refseq	NP_001098714
MIM	176888
UniProt ID	P28827
Chromosome Location	18p11.2

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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; Nectin adhesion pathway, organism-specific biosystem;

Function

cadherin binding; hydrolase activity; protein binding; protein tyrosine phosphatase activity; receptor activity; transmembrane receptor protein tyrosine phosphatase activity;

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