

Recombinant Mouse PTPRJ Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51682

Size: 10ug, 100ug

Protein Name: Receptor-type tyrosine-protein phosphatase eta (Protein-tyrosine phosphatase eta) (R-PTP-eta) (EC 3.1.3.48) (HPTP beta-like tyrosine phosphatase) (Protein-tyrosine phosphatase receptor type J) (R-PTP-J) (Susceptibility to colon cancer 1) (CD antigen CD148)

Synonym: Ptprij, Byp, Scc1

UniProt ID: Q64455

UniProt Link: www.uniprot.org/uniprotkb/Q64455/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 1238 AA

Molecular Weight: 137 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MKPAARETRTPPRSPGLRWALLPLLLLLRQGQVLCAGAAPNPIFDIEAVVSPTSULLTWKHND SGAS
ECRIENKMESNLTFPVKNQTSNITGLSPGTSYTFISIISVTTNETLNKTITTEPWPVSDLHVT SVGV TQ
ARLTWSNANGTASYRMLIEELTHSSVNISGLKPGTNN SFAPNESNETQADFAVAEEV PDANGTKRI
PVTNLSQLHKNSLVSDPPSGQDPSLTEILLTDLKPDTQYNATIYSQAANGTEGQPRNKVF KTNSTQ
VSDVRAMNISASSMTLTWKSNDGSRSTIVYKIHVAGGTHSVNQTVNKT EAILGLSSSTLYNITVHPF
LGQTEGTPGFLQVYTSPDQVSDFRVTNVSTRAIGLAWRSNDSKSFEIFIKQDGGEKHRNASTGNQS
YMVEDLKPGETSYHFEIIPRGPDGTEGLSSTVNGSTDPSAVTDIRVVNISTTEMQLEWQNTDDASGYT
YHLVLESKSGSIIRTNSSQKWITVGS LTPGTLYNVTIFPEVDQIQGISNSITQYTRPSSVSHIEVNTTTT
AAIRWKNEAASASYAYSVLILKTGDGSNVT SNFTKDPSILIPELIPGVSYTVKILTQVGDGTTSLVPG
WNLFCTEPEPVTSFHC EVVPKEPALVLKWACPF GMYTG FELGVRSDSWDNMTRLENCTSDDDTEC
RTEVAYLNFSTSYNISIATLSCGKMALPAQNIC TTGITDPPTPDGSPNITSVSHNSVKVKFSGFEASHG
PIKAYAVILTTGEEAQP SADVLKYTYEDFKRGASDTYVTYLIRIEEKGQSQGLSEVLN YEIDVGNQSTT
LGYNGRLEPLGSYRACVAGFTNITYNLQNDGLINGDES YVSFSPYSEAVFLPQDPGVICGAVFGCIF
GALAITAVGGFIFWRKKRTDAKNNEVSFSQIKPKKSKLIRVENFEAYFKKQQADSNCGFAEEYEDLKL
IGISLPKYTAEIAENRGKNRYNNVLPYDISRVKLSVQTHSTDDYINANYMPGYH SKKDFIATQGGLPNT
LKDFWRMVWEKNVYAIVMLTKCVEQGR TKCEEYWPSKQAQDYGDITVAMTSEVVLPEWTIRDFVVK



NMQNSESHPLRQFHFTSWPDHGVDPDTDLLINFRYLVRDYMKQIPPESPILVHCSAGVGRTGTFAID
RLIYQIENENTVDVYGIVYDLRMHRPLMVQTEDQYVFLNQCVLDIIRAQKDSKVDLIYQNTTAMTIYEN
LEPVSMFGKTNGYIA

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Receptor-type tyrosine-protein phosphatase eta (Protein-tyrosine phosphatase eta) (R-PTP-eta) (EC 3.1.3.48) (HPTP beta-like tyrosine phosphatase) (Protein-tyrosine phosphatase receptor type J) (R-PTP-J) (Susceptibility to colon cancer 1) (CD antigen CD148) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Tyrosine phosphatase which dephosphorylates or contributes to the dephosphorylation of CTNND1, FLT3, PDGFRB, MET, KDR, LYN, SRC, MAPK1, MAPK3, EGFR, TJP1, OCLN, PIK3R1 and PIK3R2 (By similarity). Plays a role in cell adhesion, migration, proliferation and differentiation (PubMed:18249142). Has a role in megakaryocytes and platelet formation. Involved in vascular development (PubMed:12588999). May be involved in the mechanism of contact inhibition of cell growth (PubMed:12771128). Regulator of macrophage adhesion and spreading (PubMed:19268662). Positively affects cell-matrix adhesion (PubMed:12833140). Positive regulator of platelet activation and thrombosis (PubMed:19246339). Negative regulator of cell proliferation (By similarity). Negative regulator of PDGF-stimulated cell migration; through dephosphorylation of PDGFR (PubMed:12833140). Positive regulator of endothelial cell survival, as well as of VEGF-induced SRC and AKT activation; through KDR dephosphorylation (By similarity). Negative regulator of EGFR signaling pathway; through EGFR dephosphorylation (By similarity). Enhances the barrier function of epithelial junctions during reassembly (By similarity). Negatively regulates T-cell receptor (TCR) signaling (By similarity). Upon T-cell TCR activation, it is up-regulated and excluded from the immunological synapses, while upon T-cell-antigen presenting cells (APC) disengagement, it is no longer excluded and can dephosphorylate PLCG1 and LAT to down-regulate prolongation of signaling (PubMed:12913111).

Subcellular Localization: Cell membrane; Single-pass type I membrane protein. Cell projection, ruffle membrane. Cell junction. Note=After T-cell stimulation, it is temporarily excluded from immunological synapses. Found at cell borders.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.



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- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.