# Recombinant Full Length Human PTPRA Protein, C-Flag-tagged

**Cat. No.** PTPRA-2157HFL **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Full Length Human PTPRA Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells. |
| **Species** | Human |
| **Source** | Mammalian Cells |
| **Description** | 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 contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. This PTP has been shown to dephosphorylate and activate Src family tyrosine kinases, and is implicated in the regulation of integrin signaling, cell adhesion and proliferation. Three alternatively spliced variants of this gene, which encode two distinct isoforms, have been reported. |
| **Form** | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| **Molecular Mass** | 87.6 kDa |
| **AA Sequence** | MDSWFILVLLGSGLICVSANNATTVAPSVGITRLINSSTAEPVKEEAKTSNPTSSLTSL SVAPTFSPNIT LGPTYLTTVNSSDSDNGTTRTASTNSIGITISPNGTWLPDNQFTDAR TEPWEGNSSTAATTPETFPPSDE TPIIAVMVALSSLLVIVFIIIVLYMLRFKKYKQAGS |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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| | HSNSFRLSNGRTEDVEPQSVPLLARSPSTNRKYP PLPVDKLEEEINRRMADDNKLF REEFNALPACPIQATCEAASKEENKEKNRYVNILPYDHSRVHLTPVEG VPDSDYINA SFINGYQEKNKFIAAQGPKEETVNDFWRMIWEQNTATIVMVTNLKERKECKCAQYW PDQGC WTYGNIRVSVEDVTVLVDYTVRKFCIQQVGDMTNRKPQRLITQFHFTSWP DFGVPFTPIGMLKFLKKVKA CNPQYAGAIVVHCSAGVGRTGTFVVIDAMLDMMHTE RKVDVYGFVSRIRAQRCQMVQTDMQYVFIYQALL EHYLYGDTELEVTSLETHLQKIY NKIPGTSNNGLEEEFKKLTSIKIQNDKMRTGNLPANMKKNRVLQIIP YEFNRVIIPVKR GEENTDYVNASFIDGYRQKDSYIASQGPLLHTIEDFWRMIWEWKSCSIVMLTELEER G QEKCAQYWPSDGLVSYGDITVELKKEEECESYTVRDLLVTNTRENKSRQIRQFHF HGWPEVGIPSDGKGM ISIIAAVQKQQQQSGNHPITVHCSAGAGRTGTFCALSTVLE RVKAEGILDVFQTVKSLRLQRPHMVQTLE QYEFCYKVVQEYIDAFSDYANFK TRTR PLEQKLISEEDLAANDILDYKDDDDKV |
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining. |
| **Stability** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **Storage** | Store at -80 centigrade. |
| **Concentration** | >50 ug/mL as determined by microplate BCA method. |
| **Preparation** | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| **Protein Families** | Druggable Genome, Phosphatase, Transmembrane |
| **Full Length** | Full L. |

## GENE INFORMATION

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| **Gene Name** | PTPRA protein tyrosine phosphatase receptor type A [ Homo sapiens (human) ] |
| **Official Symbol** | PTPRA |
| **Synonyms** | LRP; HLPR; PTPA; HEPTP; HPTPA; RPTPA; PTPRL2; HPTPalpha; R-PTP-alpha |
| **Gene ID** | 5786 |
| **mRNA Refseq** | NM_080841.3 |
| **Protein Refseq** | NP_543031.1 |
| **MIM** | 176884 |
| **UniProt ID** | P18433 |

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