

Recombinant Human PTPRO

Cat. No. PTPRO-28853TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human GLEPP1 according to AAH35960.1, with N-terminal proprietary tag. Mol Wt 91.78 kda inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	598 amino acids
Description	This gene encodes a member of the R3 subtype family of receptor-type protein tyrosine phosphatases. These proteins are localized to the apical surface of polarized cells and may have tissue-specific functions through activation of Src family kinases. This gene contains two distinct promoters, and alternatively spliced transcript variants encoding multiple isoforms have been observed. The encoded proteins may have multiple isoform-specific and tissue-specific functions, including the regulation of osteoclast production and activity, inhibition of cell proliferation and facilitation of apoptosis. This gene is a candidate tumor suppressor, and decreased expression of this gene has been observed in several types of cancer.
Molecular Weight	91.780kDa inclusive of tags
Tissue specificity	Glomerulus of kidney. Also detected in brain, lung and placenta.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MGHLPTGIHGARRLLPLLWLFVLKFNATAFHVTQDDNNI VVSLEASDVISPASVYV VKITGESKNYFFEFEEFNSTLPP PVIFKASYHGLYYIITLVVNGNVVTKPSRSITVLTK PLP VTSVSIYDYKPSPETGVLFEIHYPEKYNVFTRVNISYWEG KDFRTMLYKDDFFKG KTVFNHWLPGMCYSNITFQLVSEATF NKSTLVEYSGVSHEPKQHRTAPYPPQNISV RIVNLNKNW EEQSGNFPEESFMRSQDTIGKEKLFHFTEETPEIPSGNIS SGWPDF NSSDYETTSQPYWWDASAAPESEDEFVSVLPME YENNSTLSETEKSTSGSFSFF PVQMILTWLPPKPPTAFDG FHIHIEREENFTEYLMVDEEAHEFVAELKEPGKYKLSV TT FSSSGSCETRKSQSAKSLSFYISPSGEWIEELTEKPQHVS VHVLSSTTALMSWT SSQENYNSTIVSVSLTCQKQKESQR LEKQYCTQVNSSKPIIENLVPGAQYQVVIYL RKGPLIGPP SDPVTFAIVPTGIKDLMLYPLGPTAVVLSWTRPYLGVFRK YVEMFYF NPATMTSEWTTYEIAATVSLTASVVIFP
Sequence Similarities	Belongs to the protein-tyrosine phosphatase family. Receptor class 3 subfamily. Contains 8 fibronectin type-III domains. Contains 1 tyrosine-protein phosphatase domain.

GENE INFORMATION

Gene Name	PTPRO protein tyrosine phosphatase, receptor type, O [Homo sapiens]
Official Symbol	PTPRO
Synonyms	PTPRO; protein tyrosine phosphatase, receptor type, O; receptor-type tyrosine-protein phosphatase O; GLEPP1; NPHS6; osteoclastic transmembrane protein

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	tyrosine phosphatase; PTP oc; PTP U2; PTPU2;
Gene ID	5800
mRNA Refseq	NM_002848
Protein Refseq	NP_002839
MIM	600579
Uniprot ID	Q16827
Chromosome Location	12p13-p12
Pathway	Signaling events mediated by Stem cell factor receptor (c-Kit), organism-specific biosystem;
Function	hydrolase activity; protein binding; protein tyrosine phosphatase activity; protein tyrosine phosphatase activity; protein tyrosine phosphatase activity;