

Recombinant Human PTPRG

Cat. No. PTPRG-30355TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 801-1147 of Human PTP gamma, containing the catalytic domain and with an N terminal proprietary tag. M.Wt 65 kDa.
Species	Human
Source	E.coli
ProteinLength	801-1147 a.a.
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 possesses an extracellular region, a single transmembrane region, and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. The extracellular region of this PTP contains a carbonic anhydrase-like (CAH) domain, which is also found in the extracellular region of PTPRBETA/ZETA. This gene is located in a chromosomal region that is frequently deleted in renal cell carcinoma and lung carcinoma, thus is thought to be a candidate tumor suppressor gene.
Tissue specificity	Found in a variety of tissues.
Biological activity	10 U/ug. One unit will hydrolyze 1 nmol p-nitrophenyl phosphate per minute at pH 7.4 and 30C. Assay buffer: 50 mM HEPES, pH 7.4, 2 mM EDTA, 3mM DTT, 100 mM

 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

	NaCl, 50 mM pNPP.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 50% Glycerol, 0.05% Tween 20, 75mM Sodium chloride, 25mM Tris HCl, 2mM EDTA, 10mM Glutathione, 1mM DTT, pH 8.0
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the protein-tyrosine phosphatase family. Receptor class 5 subfamily. Contains 1 alpha-carbonic anhydrase domain. Contains 1 fibronectin type-III domain. Contains 2 tyrosine-protein phosphatase domains.

GENE INFORMATION

Gene Name	PTPRG protein tyrosine phosphatase, receptor type, G [Homo sapiens]
Official Symbol	PTPRG
Synonyms	PTPRG; protein tyrosine phosphatase, receptor type, G; PTPG; receptor-type tyrosine-protein phosphatase gamma; RPTPG;
Gene ID	5793
mRNA Refseq	NM_002841
Protein Refseq	NP_002832
MIM	176886

 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

Uniprot ID	P23470
Chromosome Location	3p21-p14
Function	hydrolase activity; identical protein binding; protein tyrosine phosphatase activity; transmembrane receptor protein tyrosine phosphatase activity;

 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