

Recombinant Human Protein Tyrosine Phosphatase, Non-Receptor Type 12, GST-tagged

Cat. No. PTPN12-1620H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PTPN12 (1-355) was expressed in E. coli cells using a N-terminal GST tag.
Species	Human
Source	E.coli
ProteinLength	1-355 a.a.
Description	PTPN12 is thought to play an important role in cell adhesion and motility, cell migration, and signal transduction for antigen receptors in B and T lymphocytes. Signal transduction via tyrosine phosphorylation, normally fine-tuned by the concerted action of both protein tyrosine kinases and PTPs, is a key mechanism in tumorigenesis. Studies suggest potential role for PTP-PEST in regulation of p130 (cas) in mitogen and cell adhesion-induced signaling events.
Applications	Phosphatase Assay; Western Blot
Molecular Weight	66 kDa
Expression System	E. coli
Form	Recombinant protein stored in 20 mM MOPS, pH 7.5, 50 mM NaCl, 10 mM glutathione, 0.25 mM DTT, 0.1 mM PMSF, 30 % glycerol.

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Specific Activity	2965 nmol/min/mg
Purity	> 75 %
Concentration	0.1 ug/ul
Sequences	1-355
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	EGFR1 Signaling Pathway; T Cell Receptor Signaling Pathway

GENE INFORMATION

Gene Name	PTPN12 protein tyrosine phosphatase, non-receptor type 12 [Homo sapiens]
Official Symbol	PTPN12
Synonyms	PTPN12; protein tyrosine phosphatase, non-receptor type 12; PTPG1; PTP-PEST; tyrosine-protein phosphatase non-receptor type 12; OTTHUMP00000161275; OTTHUMP00000208615; OTTHUMP00000208616; protein-tyrosine phosphatase G1; EC 3.1.3.48; Tyrosine-protein phosphatase non-receptor type 12; Protein-tyrosine phosphatase G1
Gene ID	5782
mRNA Refseq	NM_001131008
Protein Refseq	NP_001124480

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MIM	600079
UniProt ID	Q05209
Chromosome Location	7q11.23
Function	SH3 domain binding; hydrolase activity; protein binding; non-membrane spanning protein tyrosine phosphatase activity

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