

Recombinant Full Length Human PTPN12 Protein, MYC/DDK-tagged

Cat. No. PTPN12-3135H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTPN12 protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains a C-terminal PEST motif, which serves as a protein-protein interaction domain, and may regulate protein intracellular half-life. This PTP was found to bind and dephosphorylate the product of the oncogene c-ABL and thus may play a role in oncogenesis. This PTP was also shown to interact with, and dephosphorylate, various products related to cytoskeletal structure and cell adhesion, such as p130 (Cas), CAKbeta/PTK2B, PSTPIP1, and paxillin. This suggests it has a regulatory role in controlling cell shape and mobility. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	87.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Concentration >50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name PTPN12 protein tyrosine phosphatase, non-receptor type 12 [Homo sapiens]

Official Symbol PTPN12

Synonyms PTP-PEST; PTPG1

Gene ID 5782

mRNA Refseq NM_001131008

Protein Refseq NP_001124480

MIM 600079

UniProt ID Q05209

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