Recombinant Human PTPN18 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PTPN18-6229H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PTPN18 MS Standard C13 and N15-labeled recombinant protein (NP_055184) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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, the mitotic cycle, and oncogenic transformation. This PTP contains a PEST motif, which often serves as a protein-protein interaction domain, and may be related to protein intracellular half-live. This protein can differentially dephosphorylate autophosphorylated tyrosine kinases that are overexpressed in tumor tissues, and it appears to regulate HER2, a member of the epidermal growth factor receptor family of receptor tyrosine kinases. Two transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	50.3 kDa
AA Sequence	MSRSLDSARSFLERLEARGGREGAVLAGEFSDIQACSAAWKADGVCSTVAGSRPE NVRKNRYKDVLPYDQTRVILSLLQEEGHSDYINGNFIRGVDGSLAYIATQGPLPHTLL DFWRLVWEFGVKVILMACREIENGRKRCERYWAQEQEPLQTGLFCITLIKEKWLNE DIMLRTLKVTFQKESRSVYQLQYMSWPDRGVPSSPDHMLAMVEEARRLQGSGPEP

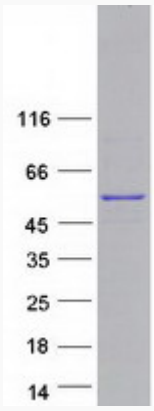
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	LCVHCSAGCGRTGVLCTVDYVRQLLLTQMIPPDFSLFDVVLKMRKQRPAAVQTEEQ YRFLYHTVAQMFCSTLQNASPHYQNIKENCAPLYDDALFLRTPQALLAIPRPPGGVL RSISVPGSPGHAMADTYAVVQKRGAPAGAGSGTQTGTGTGTGARSAEEAPLYSKV TPRAQRPGAHAEDARGTLPGRVPADQSPAGSGAYEDVAGGAQTGGLGFNLRIGRP KGPRDPPAEWTRVTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	PTPN18 protein tyrosine phosphatase non-receptor type 18 [Homo sapiens (human)]
Official Symbol	PTPN18
Synonyms	PTPN18; protein tyrosine phosphatase non-receptor type 18; BDP1; PTP-HSCF; tyrosine-protein phosphatase non-receptor type 18; brain-derived phosphatase; protein tyrosine phosphatase, non-receptor type 18 (brain-derived); EC 3.1.3.48
Gene ID	26469
mRNA Refseq	NM_014369

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Protein Refseq	NP_055184
MIM	606587
UniProt ID	Q99952
SDS-PAGE	

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