

Recombinant Human PTPN18 Protein, His&GST-tagged

Cat. No. PTPN18-2003H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTPN18 Protein (Ala311-Val460) with N-His&GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ala311-Val460
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 45.1 kDa Accurate Molecular Mass: 48 kDa
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	PTPN18 protein tyrosine phosphatase, non-receptor type 18 (brain-derived) [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
Protein Refseq	NP_055184

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MIM	606587
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UniProt ID	Q99952
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