

[Go to Product page](#)

## Datasheet for ABIN7317537 PTPN12 Protein

### Overview

Quantity:	100 µg
Target:	PTPN12
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active

### Product Details

Purpose:	Recombinant Human PTPN12 Protein (Active)
Sequence:	Met 1-Gln355
Characteristics:	A DNA sequence encoding the human PTPN12 (AAA36529.1) (Met1-Gln355) was expressed and purified with two additional amino acids (Gly & Pro) at the N-terminus.
Purity:	> 85 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to dephosphorylate a tyrosine residue in a peptide containing the EGFR Y992 phosphorylation site .The specific activity is >20 mol/min/mg

### Target Details

Target:	PTPN12
Alternative Name:	PTPN12 ( <a href="#">PTPN12 Products</a> )

## Target Details

Background:	<p>Background: PTPN12 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. PTPN12 contains a C-terminal PEST motif, which serves as a protein-protein interaction domain, and may be related to protein intracellular half-life. PTPN12 was found to bind and dephosphorylate the product of oncogene c-ABL, thus may play a role in oncogenesis. PTPN12 was shown to interact with, and dephosphorylate, various of cytoskeleton and cell adhesion molecules, such as p130 (Cas), CAKbeta/PTK2B, PSTPIP1, and paxillin, which suggested its regulatory roles in controlling cell shape and mobility.</p> <p>Synonym: PTP-PEST,PTPG1</p>
-------------	---

Molecular Weight:	41.8 kDa
-------------------	----------

## Application Details

Restrictions:	For Research Use only
---------------	-----------------------

## Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, 10 % glycerol, pH 8.0
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p>