

Product datasheet

Recombinant Human PTP1B protein ab42571

Overview

Product name	Recombinant Human PTP1B protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Escherichia coli
Amino Acid Sequence	
Species	Human
Amino acids	1 to 436
Tags	GST tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab42571** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Inhibition Assay
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.307% Glutathione, 0.0154% DTT, 0.395% Tris HCl, 0.05% Tween, 0.0584% EDTA, 50% Glycerol, 0.435% Sodium chloride
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General Info

Function	May play an important role in CKII- and p60c-src-induced signal transduction cascades.
Sequence similarities	Belongs to the protein-tyrosine phosphatase family. Non-receptor class 1 subfamily. Contains 1 tyrosine-protein phosphatase domain.
Post-translational	Oxidized on Cys-215; the Cys-SOH formed in response to redox signaling reacts with the alpha-

modifications

amido of the following residue to form a 4-amino-3-isothiazolidinone serine cross-link, triggering a conformational change that inhibits substrate binding and activity. The active site can be restored by reduction.

Cellular localization

Endoplasmic reticulum membrane.

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