

## Product datasheet

# Recombinant human PTP1B protein ab42572

### Description

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<b>Product name</b>	Recombinant human PTP1B protein
<b>Biological activity</b>	20 U/ug. One unit will hydrolyze 1 nmol p-nitrophenyl phosphate per minute at pH 7.4 and 30C. Assay buffer: 50 mM HEPES, pH 7.4, 2 mM EDTA, 3 mM DTT, 100 mM NaCl, 50 mM pNPP.
<b>Purity</b>	> 95 % SDS-PAGE.
<b>Expression system</b>	Escherichia coli
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Amino acids</b>	1 to 321
<b>Tags</b>	GST tag N-Terminus

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab42572** in the following tested applications.

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

<b>Applications</b>	Inhibition Assay
<b>Form</b>	Liquid

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. Preservative: None Constituents: 50% Glycerol, 0.5% Tween 20, 75mM Sodium chloride, 25mM Tris HCl, 2mM EDTA, 10mM Glutathione, 1mM DTT, pH 8.0 This product is an active protein and may elicit a biological response in vivo, handle with caution.
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### General Info

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

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### **Our Abpromise to you: Quality guaranteed and expert technical support**

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
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- We investigate all quality concerns to ensure our products perform to the highest standards

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