

### Recombinant rat PTP1B protein ab42573

#### Description

<b>Product name</b>	Recombinant rat PTP1B protein
<b>Biological activity</b>	The specific activity of rat PTP1B was determined using pNPP. Enzyme reaction condition: 20 mM pNPP, 5 min incubation at 30C, 2 ug/ml enzyme.
<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>	Rat
<b>Amino acids</b>	1 to 321
<b>Tags</b>	GST tag N-Terminus

#### Specifications

Our **Abpromise guarantee** covers the use of **ab42573** 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

<b>Stability and Storage</b>	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.307% Glutathione, 0.0154% (R*,R*)-1,4-Dimercaptobutan-2,3-diol, 0.395% Tris HCl, 0.05% Tween, 50% Glycerol (glycerin, glycerine), 0.435% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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#### General Info

<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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