

## Product datasheet

# Recombinant mouse PTP1B protein ab42574

### Overview

---

<b>Product name</b>	Recombinant mouse PTP1B protein
<b>Protein length</b>	Full length protein

### Description

---

<b>Nature</b>	Recombinant
<b>Source</b>	Escherichia coli
<b>Amino Acid Sequence</b>	
<b>Species</b>	Mouse
<b>Amino acids</b>	1 to 321
<b>Tags</b>	GST tag N-Terminus

### Specifications

---

Our [Abpromise guarantee](#) covers the use of **ab42574** in the following tested applications.

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

<b>Biological activity</b>	The specific activity of mouse PTP1B was determined using pNPP. Enzyme reaction condition: 20 mM pNPP, 5 min incubation at 30C, 2 ug/ml enzyme.
<b>Applications</b>	Inhibition Assay
<b>Purity</b>	> 95 % SDS-PAGE.
<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% DTT, 0.395% Tris HCl, 0.05% Tween, 50% Glycerol, 0.435% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
------------------------------	--

## General info

---

<b>Function</b>	May play an important role in CKII- and p60c-src-induced signal transduction cascades.
<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.

---

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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

---

- 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
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

## Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors