

Recombinant human PTP1B protein (Active) ab51277

6 References 画像数 1

製品の詳細

製品名 Recombinant human PTP1B protein (Active)

生理活性 Specific activity is > 10,000 units/mg, and is defined as the amount of enzyme that hydrolyze 1.0 nmole of p-nitrophenyl phosphate (pNPP) per minute at pH 7.5 at 37C.

Activity Assay:

Prepare a 180ul assay buffer into a suitable container: The concentrations are 11mM Tris-HCl pH7.5, 55mM NaCl, 2.2mM DTT, 1.1mM MnCl₂, 1.1mM EDTA, 33mM pNPP. Equilibrate to 37° and monitor the A405nm until value is constant using a spectrophotometer.

Add 20ul of recombinant PTP-1B protein 12.5ug/ml in 0.1% BSA/DW.

Record the absorbance A405nm for 5 minutes.

精製度 > 95 % SDS-PAGE.
This protein was purified by conventional column chromatographic techniques.

発現系 Escherichia coli

アクセッション番号 **P18031**

タンパク質長 Full length protein

Animal free No

由来 Recombinant

生物種 Human

配列

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MEMEKEFEQI DKSGSWAAIY QDIRHEASDF
PCRVAKLPKN KNRNRYRDVS PFDHSRIKLH
QEDNDYINAS LIKMEEAQRS YILTQGPLPN
TCGHFWEMVW EQKSRGVVML NRVMEKGSLK
CAQYWPQKEE KEMIFEDTNL KLTLISEDIK
SYTTRQLEL ENLTTQETRE ILHFHYTTWP
DFGVPESPAS FLNFLFKVRE SGSLSPEHGP
VVVHCSAGIG RSGTFCLADT CLLLMDKRKD
PSSVDIKKVL LEMRKFRMGL IQTADQLRFS
YLAVIEGAKF IMGDSSVQDQ WKELSHEDLE
PPPEHIPPPP RPPKRILEPH N
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予測される分子量 37 kDa

領域 1 to 321

配列の追加情報

(NP_002818)

特性

Our **Abpromise guarantee** covers the use of **ab51277** in the following tested applications.

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

アプリケーション

SDS-PAGE

Functional Studies

製品の状態

Liquid

備考

Concentration determined by Bradford assay.

前処理および保存

保存方法および安定性

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.50

Constituents: 0.0156% Beta mercaptoethanol, 0.0154% DTT, 0.395% Tris HCl, 0.0292% EDTA, 20% Glycerol (glycerin, glycerine)

This product is an active protein and may elicit a biological response in vivo, handle with caution.

関連情報

機能

May play an important role in CKII- and p60c-src-induced signal transduction cascades.

配列類似性

Belongs to the protein-tyrosine phosphatase family. Non-receptor class 1 subfamily.

Contains 1 tyrosine-protein phosphatase domain.

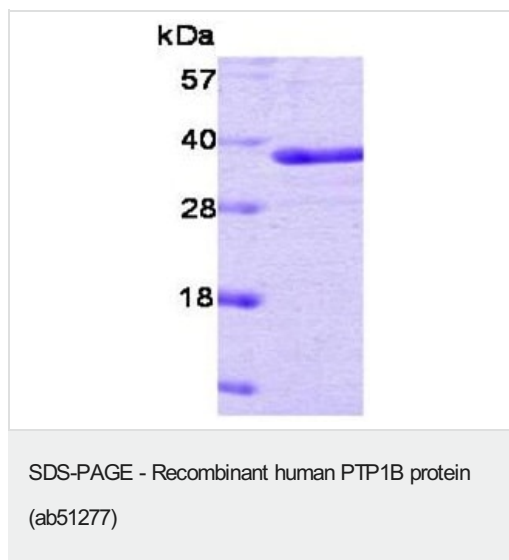
翻訳後修飾

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.

細胞内局在

Endoplasmic reticulum membrane.

画像



3ug of reduced ab51277 on SDS-PAGE, stained with Coomassie Blue.

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