

Product datasheet

Recombinant human Peroxiredoxin 1 protein ab74172

画像数 1

製品の概要

製品名	Recombinant human Peroxiredoxin 1 protein
タンパク質長	Full length protein

製品の詳細

由来	Recombinant
由来	Escherichia coli

アミノ酸配列

生物種	Human
配列	MGSSHHHHHH SGLVPRGSH MSSGNAKIGH PAPNFKATAV MPDGQFKDIS LSDYKGYVYV FFFYPLDFTF VCPTETIAFS DRAEEFKKLN CQVIGASVDS HFCHLAWVNT PKKQGGLGPM NIPLVSDPKR TIAQDYGVLK ADEGISFRGL FIIDDKGILR QITVNDLPVG RSVDETLRLV QAFQFTDKHG EVCPAGWKPG SDTIKPDVQK SKEYFSKQK

特性

Our [Abpromise guarantee](#) covers the use of **ab74172** in the following tested applications.

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

生理活性	Specific activity: approximately 600-670 pmole/min/μg. Enzymatic activity was confirmed by measuring the remaining peroxide after incubation of PRDX1 and peroxide for 20 min at room temperature. Specific activity is defined as the amount of hydroperoxide that 1ug of enzyme can reduce at 25 C for 1 minute.
アプリケーション	Functional Studies SDS-PAGE
精製度	> 90 % SDS-PAGE. ab74172 is purified by conventional chromatography techniques.
製品の状態	Liquid

前処理および保存

保存方法および安定性

Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Preservative: None

Constituents: 20% Glycerol, 20mM Tris, pH 7.5

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

関連情報

機能

Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system but not from glutaredoxin. May play an important role in eliminating peroxides generated during metabolism. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H₂O₂. Reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive postmitotic motor neuron differentiation.

配列類似性

Belongs to the ahpC/TSA family.

Contains 1 thioredoxin domain.

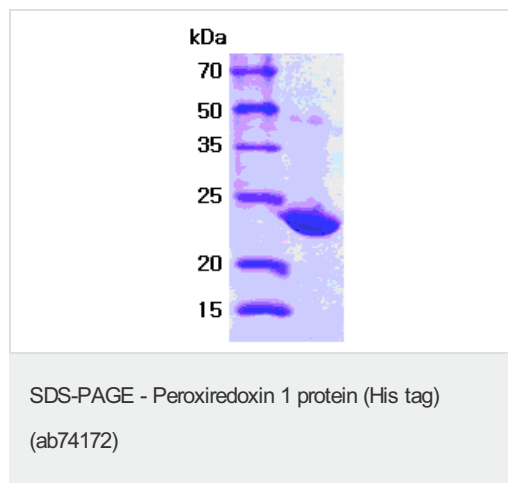
翻訳後修飾

Phosphorylated on Thr-90 during the M-phase, which leads to a more than 80% decrease in enzymatic activity.

細胞内局在

Cytoplasm. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

画像



ab74172, detecting Peroxiredoxin 1 protein
(His tag) at 24 kDa by SDS-PAGE

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