

Recombinant human Peroxiredoxin 1/PAG protein ab74172

2 References 1 图像

描述	
产品名称	重组人Peroxiredoxin 1/PAG蛋白
生物活性	Specific activity: approximately 600-670 pmole/min/μg. Enzymatic activity is defined as the amount of hydroperoxide that 1μg of enzyme can reduce at 25C for 1 minute. Conditions - Reaction buffer : 1mM DTT, 0.03X PBS, 0.5% glycerol. - Initial amount of substrate : 0.85μg - Total reaction volume: 100 μl. - Reaction temperature: Room temperature 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.
纯度	> 90 % SDS-PAGE. ab74172 is purified by conventional chromatography techniques.
表达系统	Escherichia coli
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MSSGNAKIGH PAPNFKATAV MPDGQFKDIS LSDYKGKYVV FFFYPLDFTF VCPTEIIAFS DRAEEFKKLN CQVIGASVDS HFCHLAWVNT PKKQGGLGPM NIPLVSDPKR TIAQDYGVLK ADEGISFRGL FIIDDKGILR QITVNDLPVG RSVDETLRLV QAFQFTDKHG EVCPAGWKPG SDTIKPDVQK SKEYFSKQK
标签	His tag N-Terminus

技术指标

Our <b>Abpromise guarantee</b> covers the use of <b>ab74172</b> in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
应用	Functional Studies SDS-PAGE
形式	Liquid

## 制备和贮存

### 稳定性和存储

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

pH: 7.50

Constituents: 0.242% Tris, 20% Glycerol (glycerin, glycerine)

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

## 常规信息

### 功能

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  $H_2O_2$ . Reduces an intramolecular disulfide bond in GPD5 that gates the ability to GPD5 to drive postmitotic motor neuron differentiation.

### 序列相似性

Belongs to the ahpC/TSA family.

Contains 1 thioredoxin domain.

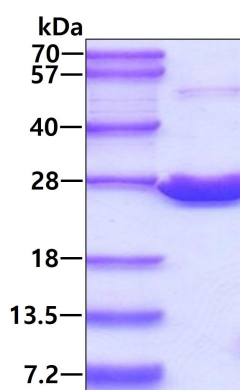
### 翻译后修饰

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

### 细胞定位

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

## 图片



ab74172, detecting Peroxiredoxin 1/PAG protein (His tag) at 24 kDa by SDS-PAGE. 3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

SDS-PAGE - Recombinant human Peroxiredoxin  
1/PAG protein (ab74172)

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

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