

# Recombinant human Peroxiredoxin 1/PAG protein ab79945

**1 References** [画像数 3](#)

### 製品の詳細

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製品名	Recombinant human Peroxiredoxin 1/PAG protein
生理活性	Specific Activity between 800 and 1000 pmol/min/μg. Please enquire as to activity of specific lots. 1.88 μg of Peroxiredoxin 1 was incubated in 50 mM Hepes (pH 7.0) containing 200 μM NADPH, 3 μM thioredoxin, and 1.5 μM thioredoxin reductase. The reaction mixture was incubated at 30C for 5 min, followed by the addition of 0.22 mM H <sub>2</sub> O <sub>2</sub> . NADPH oxidation was monitored (fluorescence decrease) for the next 10 min.
精製度	> 90 % SDS-PAGE. Affinity purified.
発現系	Baculovirus infected insect cells
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human

### 特性

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Our **Abpromise guarantee** covers the use of **ab79945** 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	Western blot Functional Studies SDS-PAGE
製品の状態	Liquid

### 前処理および保存

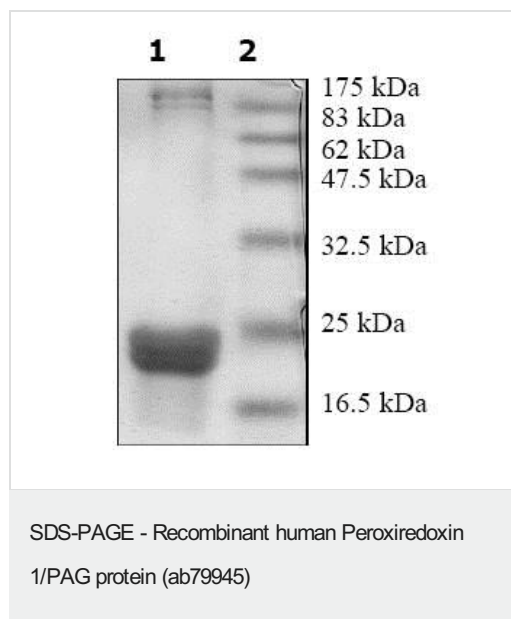
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保存方法および安定性	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.0462% (R*,R*)-1,4-Dimercaptobutan-2,3-diol, 0.395% Tris HCl, 0.05% Tween, 50% Glycerol (glycerin, glycerine), 0.58% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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## 関連情報

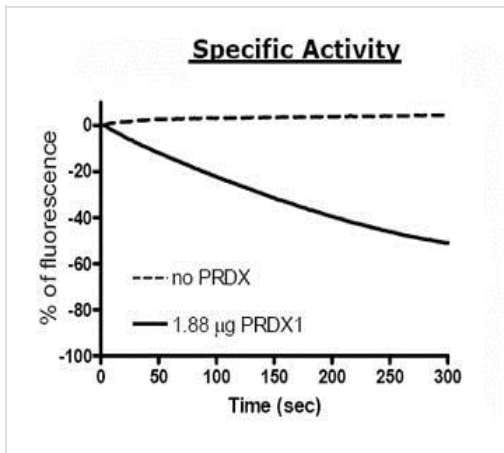
機能	Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system but not from glutaredoxin. May play an important role in eliminating peroxides generated during metabolism. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H <sub>2</sub> O <sub>2</sub> . Reduces an intramolecular disulfide bond in GTPD5 that gates the ability to GTPD5 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



Lane 1: ab79945 on 14% SDS-PAGE, Coomassie staining, 20µg.

Lane 2: Protein marker.



Functional Studies - Recombinant human Peroxiredoxin 1/PAG protein (ab79945)



Western blot - Recombinant human Peroxiredoxin 1/PAG protein (ab79945)

This protein is a homodimer consisting of two subunits with an expected molecular weight of 23kDa.

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

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