

Recombinant human Peroxiredoxin 1/PAG protein ab79945

[1 References](#) [3 图像](#)

描述

产品名称	重组人Peroxiredoxin 1/PAG蛋白
生物活性	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 ₂ O ₂ . NADPH oxidation was monitored (fluorescence decrease) for the next 10 min.
纯度	> 90 % SDS-PAGE. Affinity purified.
表达系统	Baculovirus infected insect cells
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human

技术指标

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.

应用	Western blot Functional Studies SDS-PAGE
形式	Liquid

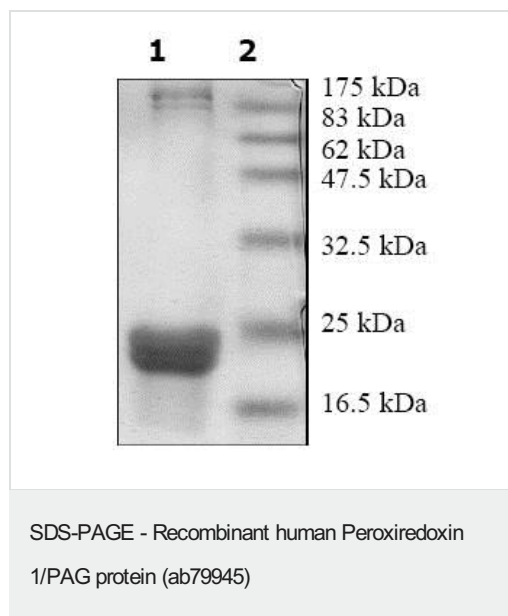
制备和贮存

稳定性和存储	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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常规信息

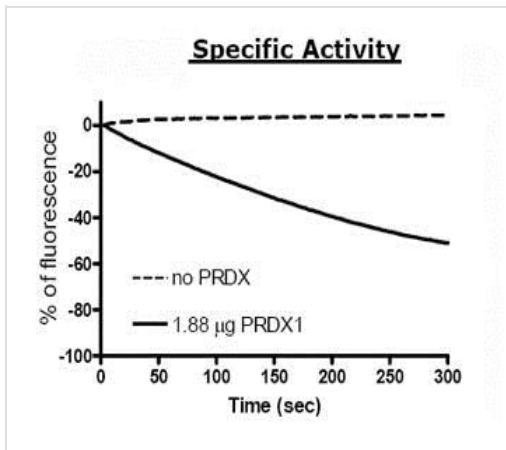
功能	Involves in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system but not from glutaredoxin. May play an important role in eliminating peroxides generated during metabolism. Might participate in the signaling cascades of growth factors and tumor necrosis factor- α by regulating the intracellular concentrations of H_2O_2 . Reduces an intramolecular disulfide bond in GTPD5 that gates the ability to GTPD5 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



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

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.

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