

Product datasheet

Recombinant Human Peroxiredoxin 1/PAG (mutated K197D) protein ab95476

[1 Image](#)

Description

Product name	Recombinant Human Peroxiredoxin 1/PAG (mutated K197D) protein
Purity	> 80 % SDS-PAGE. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Modifications	mutated K197D

Specifications

Our **Abpromise guarantee** covers the use of **ab95476** in the following tested applications.

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

Applications	SDS-PAGE
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Store at -80°C. 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
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General Info

Function	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
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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.

Sequence similarities

Belongs to the ahpC/TSA family.
Contains 1 thioredoxin domain.

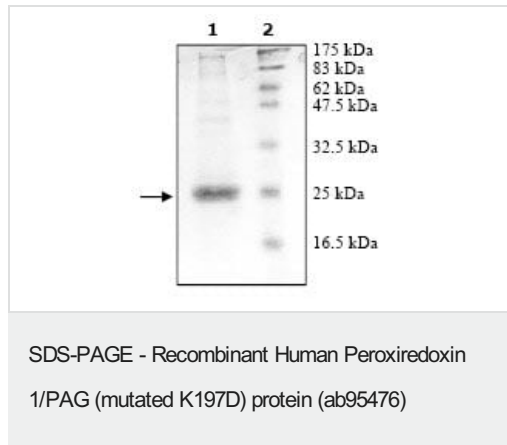
Post-translational modifications

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

Cellular localization

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

Images



14% SDS-PAGE analysis

Lane 1: 8µg ab95476

Lane 2: Molecular Weight markers

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