

# Recombinant human Peroxiredoxin 2/PRP protein ab79947

[3 Images](#)

### Description

<b>Product name</b>	Recombinant human Peroxiredoxin 2/PRP protein
<b>Biological activity</b>	Specific Activity: 149 pmol/min/μg. 3.45 μg of Peroxiredoxin 2 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.
<b>Purity</b>	> 95 % SDS-PAGE. Affinity purified.
<b>Expression system</b>	Baculovirus infected Sf9 cells
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human

### Specifications

Our **Abpromise guarantee** covers the use of **ab79947** in the following tested applications.

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

<b>Applications</b>	Functional Studies SDS-PAGE Western blot
<b>Form</b>	Liquid

### Preparation and Storage

<b>Stability and Storage</b>	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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## General Info

### Function

Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system. It is not able to receive electrons 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  $H_2O_2$ .

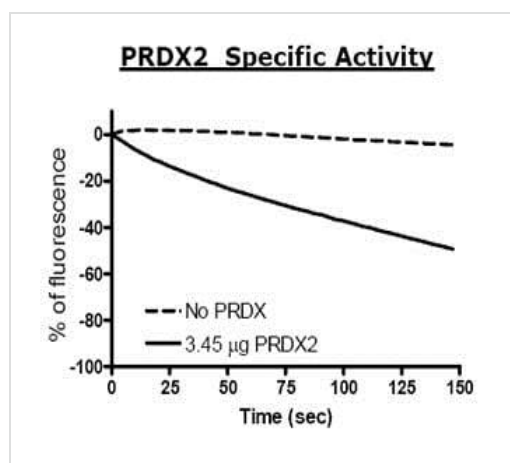
### Sequence similarities

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

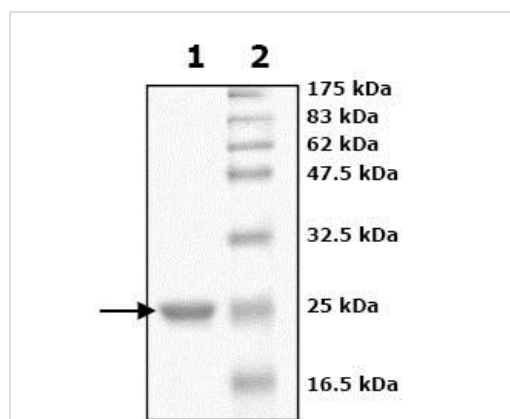
### Cellular localization

Cytoplasm.

## Images



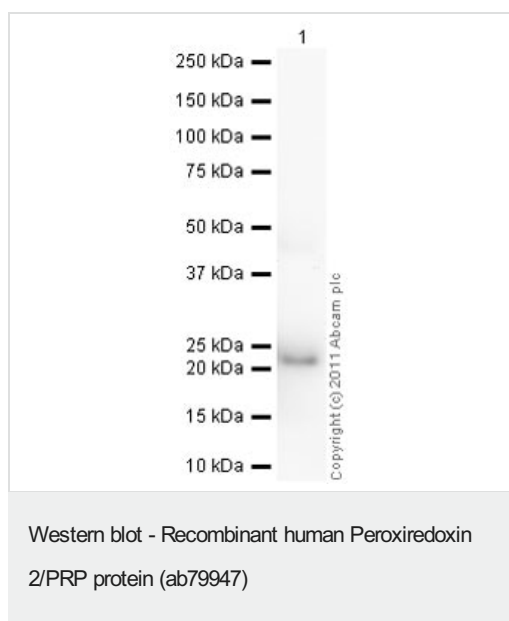
Functional Studies - Recombinant human  
Peroxiredoxin 2/PRP protein (ab79947)



SDS-PAGE - Recombinant human Peroxiredoxin  
2/PRP protein (ab79947)

Lane 1: ab79947 on 14% SDS-PAGE, Coomassie staining, 10µg.

Lane 2: Protein marker.



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

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