

**PRDX4 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12100c****Specification**

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**PRDX4 Antibody (Center) Blocking peptide - Product Information**Primary Accession [Q13162](#)**PRDX4 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 10549**Other Names**

Peroxiredoxin-4, Antioxidant enzyme AOE372, AOE37-2, Peroxiredoxin IV, Prx-IV, Thioredoxin peroxidase A0372, Thioredoxin-dependent peroxide reductase A0372, PRDX4

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**PRDX4 Antibody (Center) Blocking peptide - Protein Information****Name** PRDX4**Function**

Thiol-specific peroxidase that catalyzes the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively. Plays a role in cell protection against oxidative stress by detoxifying peroxides and as sensor of hydrogen peroxide-mediated signaling events. Regulates the activation of NF-kappa-B in the cytosol by a modulation of I-kappa-B-alpha phosphorylation.

**Cellular Location**

Cytoplasm. Endoplasmic reticulum. Note=Cotranslationally translocated to and retained within the endoplasmic reticulum. A small fraction of the protein is cytoplasmic.

**PRDX4 Antibody (Center) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**PRDX4 Antibody (Center) Blocking peptide - Images****PRDX4 Antibody (Center) Blocking peptide - Background**

The protein encoded by this gene is an antioxidant enzyme and belongs to the peroxiredoxin family. The protein is localized to the cytoplasm. Peroxidases of the peroxiredoxin family reduce hydrogen peroxide and alkyl hydroperoxides to water and alcohol with the use of reducing equivalents derived from thiol-containing donor molecules. This protein has been found to play a regulatory role in the activation of the transcription factor NF-kappaB.

**PRDX4 Antibody (Center) Blocking peptide - References**

Jamaluddin, M., et al. J. Virol. 84(18):9533-9545(2010) Davila, S., et al. Genes Immun. 11(3):232-238(2010) Edvardsen, H., et al. Pharmacogenomics J. (2010) In press : Wang, H.Q., et al. FEBS Lett. 583(9):1511-1515(2009) Starr, J.M., et al. Mech. Ageing Dev. 129(12):745-751(2008)