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# PRDX5 Antibody (Center) Blocking Peptide
**Synthetic peptide**
**Catalog # BP2937c**

## Specification

### PRDX5 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P30044

### PRDX5 Antibody (Center) Blocking Peptide - Additional Information

**Gene ID** 25824

**Other Names**
Peroxiredoxin-5, mitochondrial, Alu corepressor 1, Antioxidant enzyme B166, AOEB166, Liver tissue 2D-page spot 71B, PLP, Peroxiredoxin V, Prx-V, Peroxisomal antioxidant enzyme, TPx type VI, Thioredoxin peroxidase PMP20, Thioredoxin reductase, PRDX5, ACR1

**Target/Specificity**
The synthetic peptide sequence used to generate the antibody <a href=/products/AP2937c>AP2937c</a> was selected from the Center region of human PRDX5. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

### PRDX5 Antibody (Center) Blocking Peptide - Protein Information

**Name** PRDX5 (HGNC:9355)

**Synonyms** ACR1

**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.

**Cellular Location**
[Isoform Mitochondrial]: Mitochondrion

**Tissue Location**

Widely expressed..

**PRDX5 Antibody (Center) Blocking Peptide - Protocols**

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

- Blocking Peptides

**PRDX5 Antibody (Center) Blocking Peptide - Images**

**PRDX5 Antibody (Center) Blocking Peptide - Background**

PRDX5 is a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. This protein may play an antioxidant protective role in different tissues under normal conditions and during inflammatory processes. This protein interacts with peroxisome receptor 1. The crystal structure of this protein in its reduced form has been resolved to 1.5 angstrom resolution.

**PRDX5 Antibody (Center) Blocking Peptide - References**

Knoops,B., et.al., J. Biol. Chem. 274 (43), 30451-30458 (1999)Jurkunas,et.al., Invest. Ophthalmol. Vis. Sci. 49 (7), 2956-2963 (2008)