

**Anti-Peroxiredoxin 5 Rabbit Monoclonal Antibody**  
Catalog # ABO15699**Specification****Anti-Peroxiredoxin 5 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IP, FC
Primary Accession	<a href="#">P30044</a>
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-Peroxiredoxin 5 Rabbit Monoclonal Antibody . Tested in WB, IHC, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

**Anti-Peroxiredoxin 5 Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 25824

**Other Names**

Peroxiredoxin-5, mitochondrial, 1.11.1.24, 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-dependent peroxiredoxin 5, PRDX5 ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=9355](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=9355)), ACR1

**Calculated MW**

17 kDa KDa

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200<br>IP 1:50<br>FC 1:80

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human Peroxiredoxin 5

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-Peroxiredoxin 5 Rabbit Monoclonal Antibody - 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..

**Anti-Peroxiredoxin 5 Rabbit Monoclonal Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-Peroxiredoxin 5 Rabbit Monoclonal Antibody - Images**

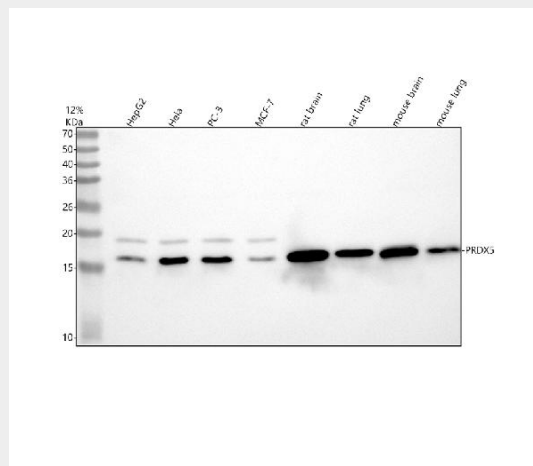


Figure 1. Western blot analysis of Peroxiredoxin 5 using anti-Peroxiredoxin 5 antibody (M02891-1).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HepG2 whole cell lysates,

Lane 2: human HeLa whole cell lysates,

Lane 3: human PC-3 whole cell lysates,

Lane 4: human MCF-7 whole cell lysates,  
Lane 5: rat brain tissue lysates,  
Lane 6: rat lung tissue lysates,  
Lane 7: mouse brain tissue lysates,  
Lane 8: mouse lung tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Peroxiredoxin 5 antigen affinity purified monoclonal antibody (Catalog # M02891-1) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Peroxiredoxin 5 at approximately 17 kDa. The expected band size for Peroxiredoxin 5 is at 22 kDa.