

# Human Peroxiredoxin 6/PRDX6 antibody

Catalog Number: ATGA0362

## PRODUCT INFORMATION

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**Catalog number**

ATGA0362

**Clone No.**

AT22E7

**Product type**

Monoclonal Antibody

**UnitProt No.**

P30041

**NCBI Accession No.**

NP\_004896

**Alternative Names**

1-Cys peroxiredoxin, 1-Cys PRX, 24 kDa protein, Acidic calcium-independent phospholipase A2, AiPLA2, Antioxidant protein 2, Glutathione-dependent peroxiredoxin Liver 2D page spot 40, Lysophosphatidylcholine acyltransferase 5, Non-selenium glutathione peroxidase, NSGPx, Red blood cells page spot 12, AOP2, KIAA0106, LPCAT-5

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human PRDX6 (1-224aa) purified from E. coli

**Isotype**

IgG2a kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, ICC/IF, FACS

**Usage**

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain

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optimal results.

## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

Peroxiredoxin 6 is a member of the thiol-specific antioxidant protein family. This protein is a bifunctional enzyme with two distinct active sites. It is involved in redox regulation of the cell. It can reduce H<sub>2</sub>O<sub>2</sub> and short chain organic, fatty acid, and phospholipid hydroperoxides. It may play a role in the regulation of phospholipid turnover as well as in protection against oxidative injury.

### General References

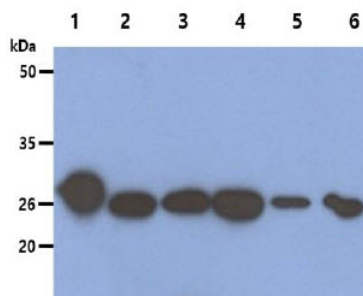
Phelan SA., et al. (2001) *Antioxid Redox Signal*. 1(4): 571-584.

Trevisan R., et al. (2014) *Comp Biochem Physiol C Toxicol Pharmacol*. 159: 22-30.

McDonagh B., et al. (2014) *J Proteome Res*. 13: 5008-5021.

## DATA

### Western blot analysis (WB)



The recombinant human PRDX6 protein (50ng), Cell and Mouse tissue lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Peroxiredoxin 6 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Recombinant PRDX6 protein

Lane 2.: HeLa cell lysate

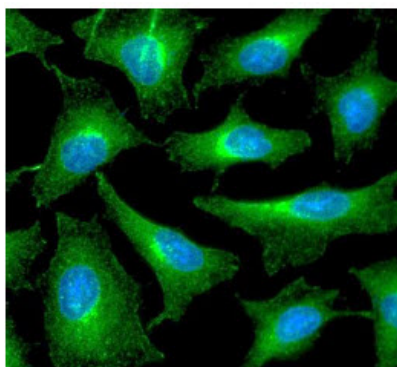
Lane 3.: 293T cell lysate

Lane 4.: HepG2 cell lysate

Lane 5.: U87MG cell lysate

Lane 6.: Ramos cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)

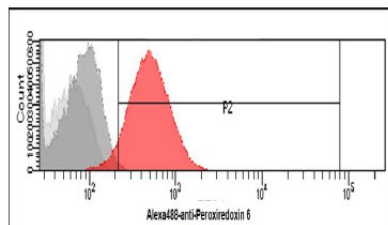


ICC/IF analysis of PRDX6 in HeLa cells. The cell was stained with ATGA0362 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

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### Flow cytometry (FACS)



Flow cytometry analysis of Peroxiredoxin in HeLa cells. The cell was stained with ATGA0362 at 2-5ug for  $1 \times 10^6$  cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).