

# Human Peroxiredoxin 5/PRDX5 antibody

Catalog Number: ATGA0379

## PRODUCT INFORMATION

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**Catalog number**

ATGA0379

**Clone No.**

AT6A10

**Product type**

Monoclonal Antibody

**UnitProt No.**

P30044

**NCBI Accession No.**

NP\_036226

**Alternative Names**

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, ACR1, AOEB166, PRXV, SBBI10

## 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 Peroxiredoxin 5 (53-214aa) purified from E. coli

**Isotype**

IgG1 kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, ICC/IF, FACS

**Usage**

The antibody has been tested by ELISA, Western blot analysis and Flow cytometry to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## 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 5, also known as PRDX5, is a member of the peroxiredoxin family of antioxidant enzymes, which reduces hydrogen peroxide and alkyl hydroperoxides with reducing equivalents provided through the thioredoxin system. This protein may play an antioxidant protective role in different tissues under normal conditions and during inflammatory processes. It has been reported that peroxiredoxin 5 is involved in intracellular redox signaling.

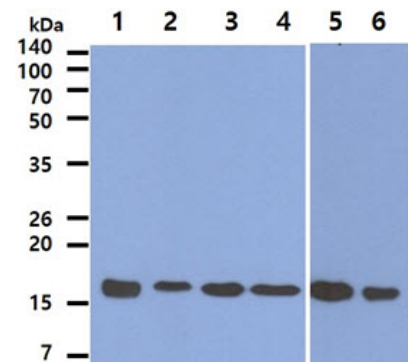
### General References

Yamashita H., et al. (1999) J Biol Chem. 274(42): 29897-29904.

Declercq JP., et al. (2001) J Mol Biol. 311(4): 751-759.

## DATA

### Western blot analysis (WB)



The Recombinant Human PRDX5 (50ng) and Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Peroxiredoxin 5 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1. : Recombinant PRDX5 protein

Lane 2. : MCF-7 cell lysate

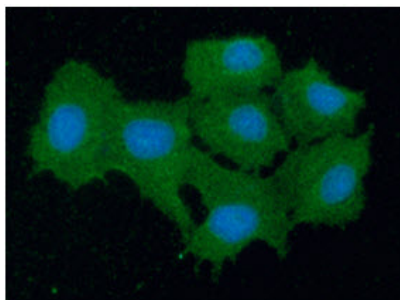
Lane 3. : A549 cell lysate

Lane 4. : HeLa cell lysate

Lane 5. : 293T cell lysate

Lane 6. : Jurkat cell lysate

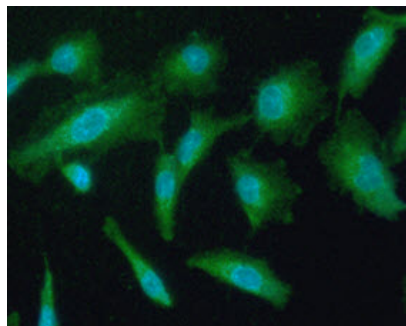
### Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of PRDX5 in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human PRDX5 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

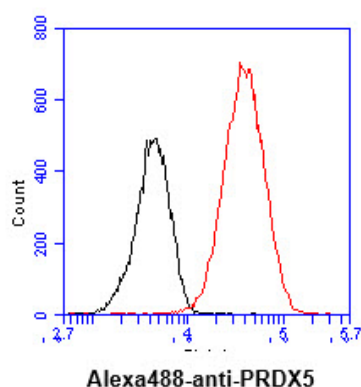
## Human Peroxiredoxin 5/PRDX5 antibody

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ICC/IF analysis of PRDX5 in A549 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human PRDX5 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

### Flow cytometry (FACS)



Flow cytometry analysis of PRDX5 in HeLa cell line, staining at 2-5ug for  $1 \times 10^6$  cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).