Product information

Monoclonal anti-human Peroxiredoxin 5 antibody (clone AT6A10)

Mouse IgG_1, κ

Cat. No. IBATGA0379

Immunogen: Recombinant human Peroxiredoxin 5 (53-214aa) purified from *E. coli*

NCBI Accession No.: NP_036226

Isotype: Mouse IgG_1 heavy chain and κ light chain

Clone: Anti-human Peroxiredoxin 5 mAb, clone AT6A10, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human Peroxiredoxin 5 protein.

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.

Concentration: 1mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4°C. For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.

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

Application: ELISA, WB, Flow cytometry, ICC/IF

Manufactured for:
Immuno-Biological Laboratories, Inc. (IBL-America)
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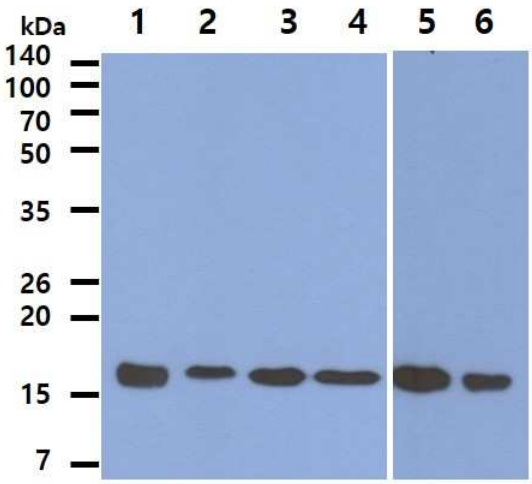
Western blot analysis

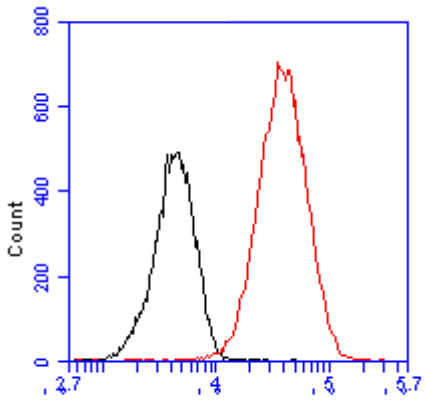
The Recombinant Human Peroxiredoxin 5 (50ng) and Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Peroxiredoxin 5 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Lane 1. : Peroxiredoxin 5 Recombinant 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

Flow cytometry

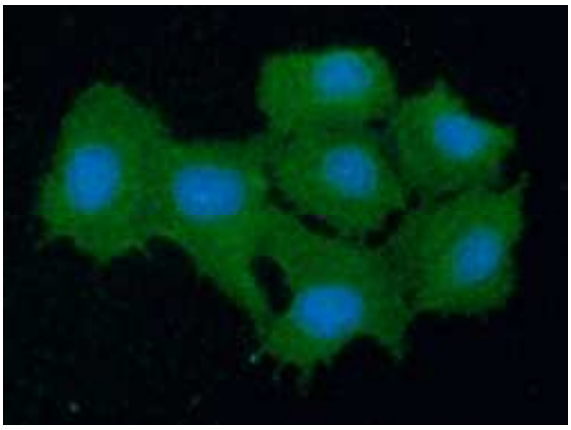
Flow cytometry analysis of PRDX5 in HeLa cell line, staining at 2-5ug for 1x10^{6}cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



Alexa488-anti-PRDX5

ICC/IF analysis

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).



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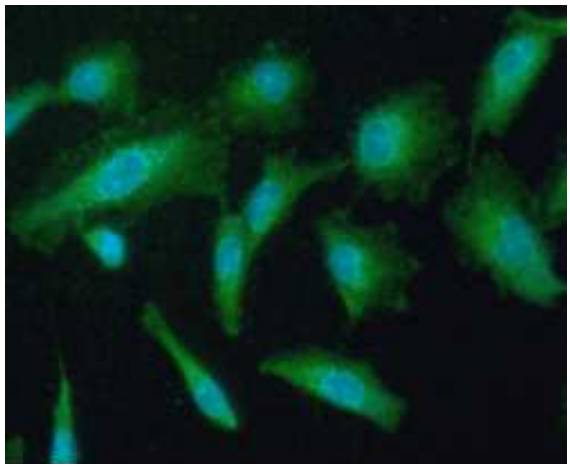

ICC/IF analysis

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).

General references:

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

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

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