Human Peroxiredoxin 6/PRDX6 antibody

Catalog Number: ATGA0362

PRODUCT INFORMATION

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

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

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.

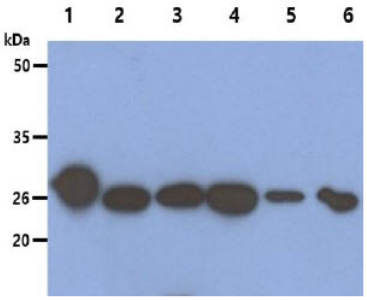
BACKGROUND

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 (2) O (2) 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 Phamacol. 159: 22-30.
McDonagh B., et al. (2014) J Proteome Res. 13: 5008-5021.

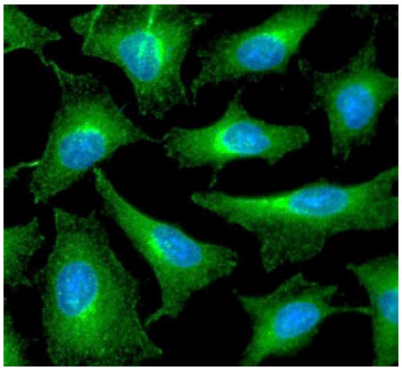
DATA

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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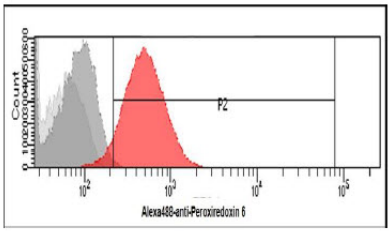
Flow cytometry (FACS)



Flow cytometry analysis of Peroxiredoxin in HeLa cells. The cell was stained with ATGA0362 at 2-5ug for 1x10^6cells (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).