

Product datasheet for **AM50639PU-N**

Peroxiredoxin-5 / PRDX5 Mouse Monoclonal Antibody [Clone ID: AT6A10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AT6A10
Applications:	ELISA, FC, IF, WB
Recommended Dilution:	ELISA. Western Blot. Flow Cytometry Immunofluorescence/Immunocytochemistry.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human Peroxiredoxin 5 (53-214aa) purified from E. coli.
Formulation:	Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol. State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	peroxiredoxin 5
Database Link:	Entrez Gene 25824 Human P30044



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Background:

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.

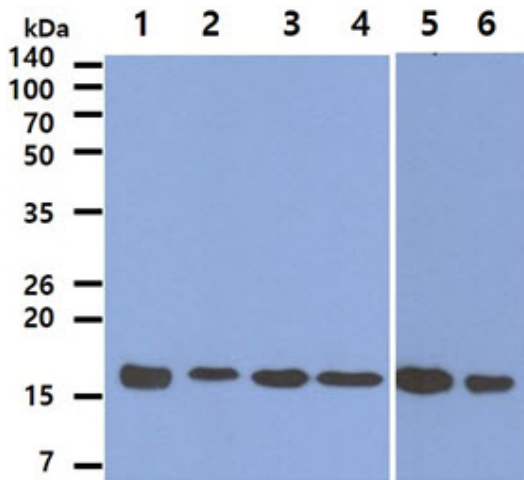
Synonyms:

PRDX5, ACR1, Alu corepressor 1, AOEB166, PLP, Peroxiredoxin V, Prx-V, TPx type VI, Thioredoxin peroxidase PMP20, Thioredoxin reductase

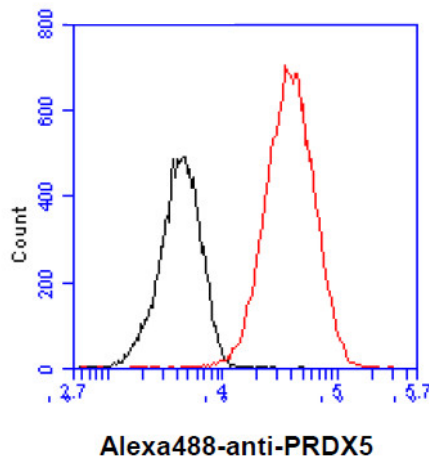
Protein Families:

Druggable Genome

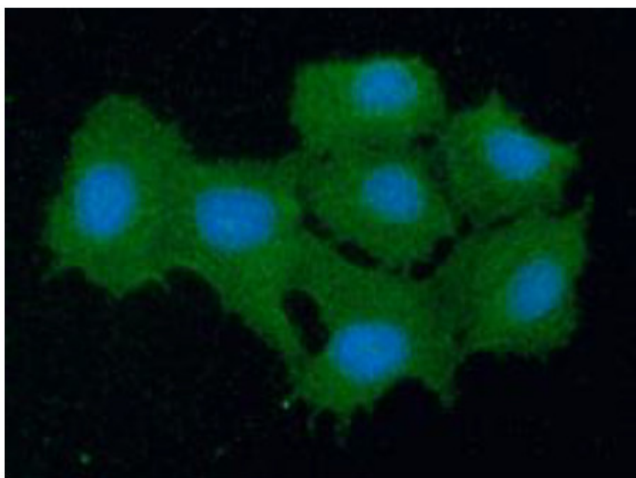
Product images:



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



Flow cytometry analysis of PRDX5 in in HeLa cell line, staining at 2-5 ug for 1x10⁶ cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



Immunofluorescence: 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).