

KD-Validated Anti-Peroxiredoxin 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody Catalog # AGI1065

Specification

KD-Validated Anti-Peroxiredoxin 1 Rabbit Monoclonal Antibody - Product Information

WB, FC, ICC Application **Primary Accession** 006830

Reactivity Human, Mouse Clonality Monoclonal Isotype Rabbit IgG

Calculated MW Predicted, 22 kDa, observed, 22 kDa KDa PRDX1

Gene Name

Aliases PRDX1; Peroxiredoxin 1; NKEFA; PAGA; **Thioredoxin-Dependent Peroxide**

Reductase; Natural Killer Cell-Enhancing

Factor A; Proliferation-Associated Gene

Protein: Thioredoxin-Dependent

Peroxiredoxin 1; Thioredoxin Peroxidase; Peroxiredoxin-1; NKEF-A; TDPX2; PAGB; PAG; Epididymis Secretory Sperm Binding Protein; Natural Killer-Enhancing Factor A;

Proliferation-Associated Gene A; EC

1.11.1.24; EC 1.11.1.15; EC 1.11.1; MSP23;

PRX1; PRXI

A synthesized peptide derived from human **Immunogen**

PRDX1

KD-Validated Anti-Peroxiredoxin 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID 5052

Other Names

Peroxiredoxin-1, 1.11.1.24, Natural killer cell-enhancing factor A, NKEF-A, Proliferation-associated gene protein, PAG, Thioredoxin peroxidase 2, Thioredoxin-dependent peroxide reductase 2, Thioredoxin-dependent peroxiredoxin 1, PRDX1, PAGA, PAGB, TDPX2

KD-Validated Anti-Peroxiredoxin 1 Rabbit Monoclonal Antibody - Protein Information

Name PRDX1

Synonyms PAGA, PAGB, TDPX2

Function

Thiol-specific peroxidase that catalyzes the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively. Plays a role in cell protection against oxidative stress by detoxifying peroxides and as sensor of hydrogen peroxide-mediated signaling events. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H(2)O(2) (PubMed:<a



href="http://www.uniprot.org/citations/9497357" target="_blank">9497357). Reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive postmitotic motor neuron differentiation (By similarity).

Cellular Location

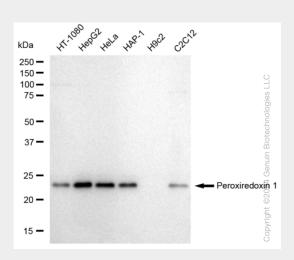
Cytoplasm. Melanosome Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV

KD-Validated Anti-Peroxiredoxin 1 Rabbit Monoclonal Antibody - Protocols

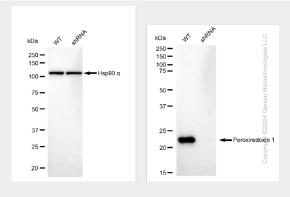
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Peroxiredoxin 1 Rabbit Monoclonal Antibody - Images

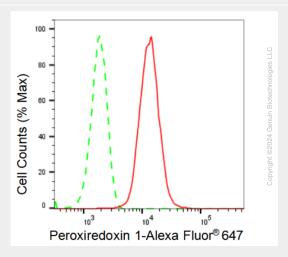


Western blotting analysis using anti-Peroxiredoxin 1 antibody (Cat#AGI1065). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Peroxiredoxin 1 antibody (Cat#AGI1065, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

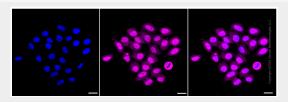




Western blotting analysis using anti-Peroxiredoxin 1 antibody (Cat#AGI1065). Peroxiredoxin 1 expression in wild type (WT) and peroxiredoxin 1 shRNA knockdown (KD) Hela cells with 30 μg of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with anti-Peroxiredoxin 1 antibody (Cat#AGI1065, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Peroxiredoxin 1 expression in HepG2 cells using Peroxiredoxin 1 antibody (Cat#AGI1065, 1:2,000). Green, isotype control; red, Peroxiredoxin 1.



Immunocytochemical staining of HepG2 cells with Peroxiredoxin 1 antibody (Cat#AGI1065, 1:1,000). Nuclei were stained blue with DAPI; Peroxiredoxin 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 μ m.