

KD-Validated Anti-Peroxiredoxin 4 Rabbit Monoclonal Antibody Rabbit monoclonal antibody

Catalog # AGI1693

Specification

KD-Validated Anti-Peroxiredoxin 4 Rabbit Monoclonal Antibody - Product Information

Application Primary Accession Reactivity Clonality Isotype Calculated MW Gene Name Aliases	WB, FC <u>Q13162</u> Rat, Human, Mouse Monoclonal Rabbit IgG Predicted, 31 kDa , observed , 27 kDa KDa PRDX4 Peroxiredoxin 4; AOE37-2; Thioredoxin-Dependent Peroxide Reductase A0372; Thioredoxin-Dependent Peroxiredoxin 4; Thioredoxin Peroxidase AO372; Antioxidant Enzyme AOE372; Peroxiredoxin IV; Peroxiredoxin-4; Prx-IV; Epididymis Secretory Sperm Binding Protein Li 97n; Thioredoxin Peroxidase (Antioxidant Enzyme); EC 1.11.1.24; EC
Immunogen	(Antioxidant Enzyme); EC 1.11.1.24; EC 1.11.1.15; HEL-S-97n; AOE372; PRX-4 A synthesized peptide derived from human Peroxiredoxin 4

KD-Validated Anti-Peroxiredoxin 4 Rabbit Monoclonal Antibody - Additional Information

Gene ID 10549 Other Names Peroxiredoxin-4, 1.11.1.24, Antioxidant enzyme AOE372, AOE37-2, Peroxiredoxin IV, Prx-IV, Thioredoxin peroxidase AO372, Thioredoxin-dependent peroxide reductase A0372, Thioredoxin-dependent peroxiredoxin 4, PRDX4

KD-Validated Anti-Peroxiredoxin 4 Rabbit Monoclonal Antibody - Protein Information

Name PRDX4

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. Regulates the activation of NF-kappa-B in the cytosol by a modulation of I-kappa-B-alpha phosphorylation.

Cellular Location

Cytoplasm. Endoplasmic reticulum. Note=Cotranslationally translocated to and retained within the endoplasmic reticulum. A small fraction of the protein is cytoplasmic.



KD-Validated Anti-Peroxiredoxin 4 Rabbit Monoclonal Antibody - Protocols

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

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

KD-Validated Anti-Peroxiredoxin 4 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Peroxiredoxin 4 antibody (Cat#AGI1693). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Peroxiredoxin 4 antibody (Cat#AGI1693, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Peroxiredoxin 4 antibody (Cat#AGI1693). Peroxiredoxin 4 expression in wild type (WT) and Peroxiredoxin 4 shRNA knockdown (KD) HeLa cells with 20 μ g of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with anti-Peroxiredoxin 4 antibody (Cat#AGI1693, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.





Flow cytometric analysis of Peroxiredoxin 4 expression in HAP-1 cells using anti-Peroxiredoxin 4 antibody (Cat#AGI1693, 1:2,000). Green, isotype control; red, Peroxiredoxin 4.