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# KD-Validated Anti-Peroxiredoxin 5 Rabbit Monoclonal Antibody

**Rabbit monoclonal antibody**
**Catalog # AGI1645**

## Specification

### KD-Validated Anti-Peroxiredoxin 5 Rabbit Monoclonal Antibody - Product Information

| | |
|---|---|
| Application | **WB, FC** |
| Primary Accession | P30044 |
| Reactivity | **Rat, Human, Mouse** |
| Clonality | **Monoclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **Predicted, 22 kDa ; Observed , 17 kDa KDa** |
| Gene Name | **PRDX5** |
| Aliases | **Peroxiredoxin 5; AOEB166; ACR1; PLP; Peroxisomal Antioxidant Enzyme; Liver Tissue 2D-Page Spot 71B; Thioredoxin Peroxidase PMP20; Antioxidant Enzyme B166; TPx Type VI; SBBI10; PMP20; PRDX6; PRXV; B166; Thioredoxin-Dependent Peroxiredoxin 5; Peroxiredoxin-5, Mitochondrial; Alu Co-Repressor 1; Peroxiredoxin V; MGC142285; MGC117264; MGC142283; Prx-V; Epididymis Secretory Protein Li 55; Thioredoxin Reductase; Alu Corepressor 1; EC 1.11.1.24; EC 1.11.1.15; HEL-S-55** |
| Immunogen | **A synthesized peptide derived from human Peroxiredoxin 5** |

### KD-Validated Anti-Peroxiredoxin 5 Rabbit Monoclonal Antibody - Additional Information

| | |
|---|---|
| Gene ID | **25824** |

**Other Names**
Peroxiredoxin-5, mitochondrial, 1.11.1.24, Alu corepressor 1, Antioxidant enzyme B166, AOEB166, Liver tissue 2D-page spot 71B, PLP, Peroxiredoxin V, Prx-V, Peroxisomal antioxidant enzyme, TPx type VI, Thioredoxin peroxidase PMP20, Thioredoxin-dependent peroxiredoxin 5, PRDX5 (<a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=9355" target="_blank">HGNC:9355</a>), ACR1

### KD-Validated Anti-Peroxiredoxin 5 Rabbit Monoclonal Antibody - Protein Information

**Name** PRDX5 (HGNC:9355)

**Synonyms** ACR1

**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.

**Cellular Location**
[Isoform Mitochondrial]: Mitochondrion

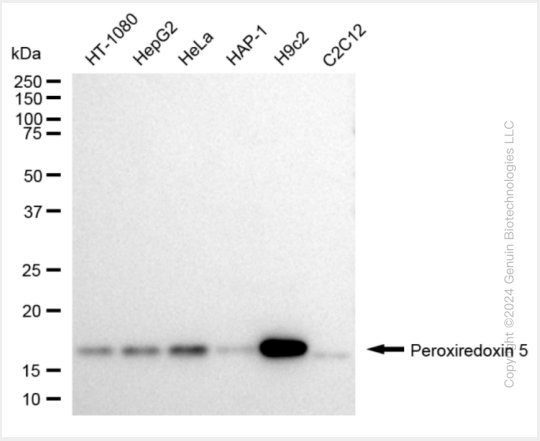
**Tissue Location**
Widely expressed..

## KD-Validated Anti-Peroxiredoxin 5 Rabbit Monoclonal Antibody - Protocols

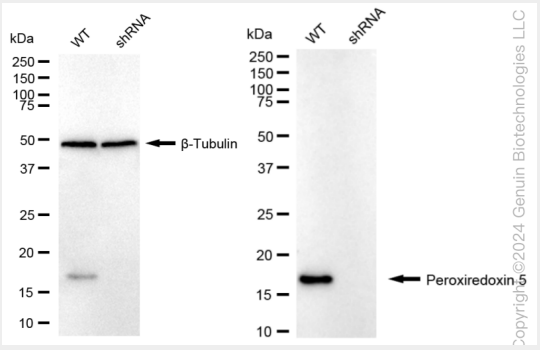
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## KD-Validated Anti-Peroxiredoxin 5 Rabbit Monoclonal Antibody - Images




Western blotting analysis using anti-Peroxiredoxin 5 antibody (Cat#AGI1645). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Peroxiredoxin 5 antibody (Cat#AGI1645, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.




Western blotting analysis using anti-Peroxiredoxin 5 antibody (Cat#AGI1645). Peroxiredoxin 5

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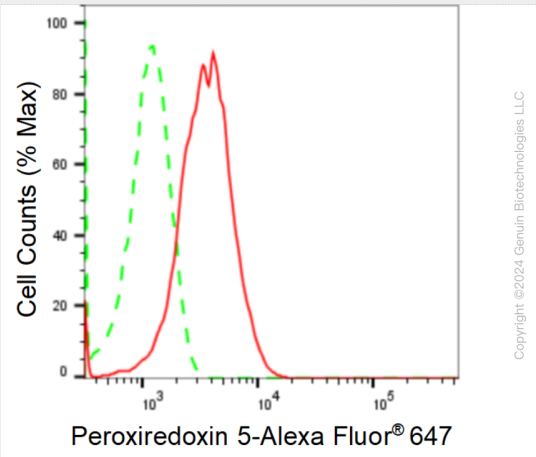
expression in wild type (WT) and Peroxiredoxin 5 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Peroxiredoxin 5 antibody (Cat#AGI1645, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.




Flow cytometric analysis of Peroxiredoxin 5 expression in H9c2 cells using anti-Peroxiredoxin 5 antibody (Cat#AGI1645, 1:2,000). Green, isotype control; red, Peroxiredoxin 5.