

## Rabbit Peroxiredoxin 5 Polyclonal Antibody | anti-PRDX5 antibody

Anti-Peroxiredoxin 5 antibody

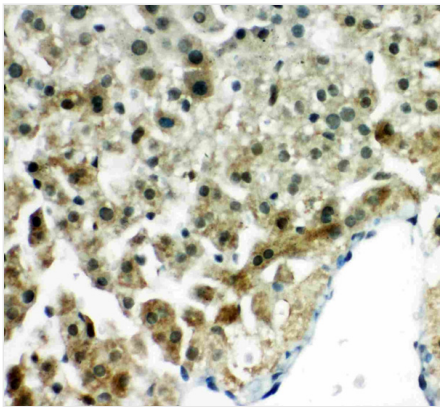
| CATALOG # | HOST   | REACTIVITY                               | APPLICATIONS                       |
|-----------|--------|------------------------------------------|------------------------------------|
| AAA45492  | Rabbit | Human, Rat; Predicted to work with mouse | Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

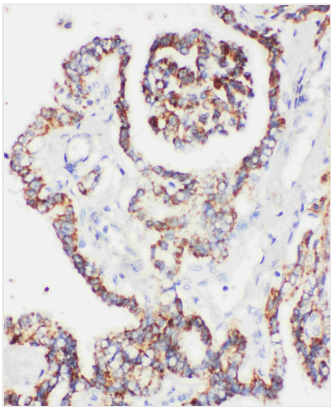
Peroxiredoxin 5; Polyclonal Antibody; Anti-Peroxiredoxin 5 antibody; Peroxiredoxin-5; mitochondrial; peroxiredoxin 5; ACR 1 antibody; ACR1 antibody; Alu co-repressor 1 antibody; Alu co-repressor 1 antibody; Alu corepressor 1 antibody; antioxidant enzyme B166 antibody; AOEB166 antibody; B166 antibody; liver tissue 2D-page spot 71B antibody; MGC117264 antibody; MGC142283 antibody; MGC142285 antibody; mitochondrial antibody; Peroxiredoxin 5 mitochondrial antibody; Peroxiredoxin V antibody; Peroxiredoxin-5 antibody; Peroxiredoxin5 antibody; peroxisomal antioxidant enzyme antibody; PLP antibody; PMP 20 antibody; PMP20 antibody; PRDX 5 antibody; PRDX 6 antibody; PRDX5 antibody; PRDX5\_HUMAN antibody; PRDX6 antibody; Prx V antibody; Prx-V antibody; PRXV antibody; SBBI10 antibody; thioredoxin peroxidase PMP20 antibody; Thioredoxin reductase antibody; TPx type VI antibody; anti-PRDX5 antibody

### PRODUCT SPECIFICATIONS

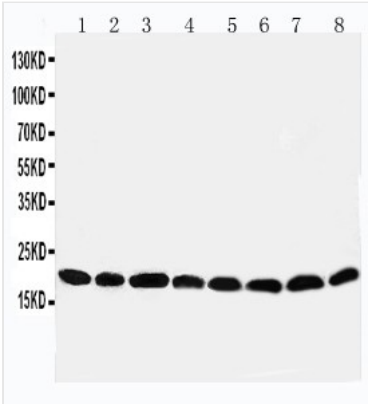
|                                                 |                                                                                                                                                                                                      |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                               |
| Reactivity                                      | Human, Rat; Predicted to work with mouse                                                                                                                                                             |
| Clonality                                       | Polyclonal                                                                                                                                                                                           |
| Isotype                                         | IgG                                                                                                                                                                                                  |
| Specificity                                     | No cross reactivity with other proteins.                                                                                                                                                             |
| Purity/Purification                             | Immunogen affinity purified.                                                                                                                                                                         |
| Form/Format                                     | Lyophilized                                                                                                                                                                                          |
| Sequence Length                                 | 214                                                                                                                                                                                                  |
| Applicable Applications for anti-PRDX5 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                        |
| Immunogen                                       | A synthetic peptide corresponding to a sequence at the C-terminus of human Peroxiredoxin 5 (166-181aa DDSLVSIIFGNRRRLKRF), identical to the related mouse and rat sequences.                         |
| Contents                                        | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .                                                                        |
| Reconstitution                                  | 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                     |
| Preparation and Storage                         | At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |



IHC (Immunohistochemisry)  
Anti-Peroxiredoxin 5 antibody, AAA45492, IHC(P)IHC(P): Rat Liver Tissue



IHC (Immunohiostchemistry)  
Anti-Peroxiredoxin 5 antibody, AAA45492, IHC(P)IHC(P): Human Prostatic Cancer Tissue



WB (Western Blot)  
Anti-Peroxiredoxin 5 antibody, AAA45492, Western blottingLane 1: Rat Brain Tissue LysateLane 2: Rat Lung Tissue LysateLane 3: Rat Liver Tissue LysateLane 4: Rat Kidney Tissue LysateLane 5: HELA Cell LysateLane 6: 293T Cell LysateLane 7: MCF-7 Cell LysateLane 8: A549 Cell Lysate

ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-PRDX5 antibody</b> | <p><b>Description:</b> Rabbit IgG polyclonal antibody for Peroxiredoxin-5, mitochondrial(PRDX5) detection. Tested with WB, IHC-P in Human, Mouse, Rat.</p> <p><b>Background:</b> PRDX5(peroxiredoxin 5) also known as AOE166, ACR1, B166, MGC117264, MGC142283, MGC142285, PLP, PMP20, PRDX6, PRXV, SBB110, is a member of the peroxiredoxin family and may play an antioxidant protective role in various tissues under nonpathologic conditions and during inflammatory processes. The PRDX5 gene is mapped on 11q13.1. PRDX5 displays mitochondrial presequence features and has 3 cysteines implicated in antioxidant activity and a C-terminal SQL peroxisomal targeting sequence. Northern blot analysis revealed ubiquitous expression of a 1.0-kb PRDX5 transcript in tissues and cell lines. Functional analysis showed that PRDX5 has antioxidant activity equivalent to that of CAT. While PRDX5 was localized to fibroblasts in normal tendon, it was localized to fibroblasts and endothelial cells in degenerative tendon. PRDX5 mRNA and protein levels increased at 12 hours, and the increase in PRDX5 expression correlated with reduced peroxide levels. PRDX5 plays a protective role against oxidative stress in human cartilage.</p> |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                     |                                                                                |
|---------------------|--------------------------------------------------------------------------------|
| NCBI GI #           | 317373539                                                                      |
| NCBI GeneID         | 25824                                                                          |
| UniProt Accession # | P30044; Q14CK0; Q6IAF2; Q9UBU5; Q9UJU4; Q9UKX4; A6NC19; A6NG06; B7ZLJ4; B7ZVW3 |
| Molecular Weight    | 12,897 Da                                                                      |

|                                  |                                                                                                                                                                                                                                                                   |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI Official Full Name          | Peroxiredoxin-5, mitochondrial                                                                                                                                                                                                                                    |
| NCBI Official Synonym Full Names | peroxiredoxin 5                                                                                                                                                                                                                                                   |
| NCBI Official Symbol             | PRDX5                                                                                                                                                                                                                                                             |
| NCBI Official Synonym Symbols    | PLP; ACR1; B166; PRXV; PMP20; PRDX6; prx-V; SBB110; AOEB166; HEL-S-55                                                                                                                                                                                             |
| NCBI Protein Information         | peroxiredoxin-5, mitochondrial; TPx type VI; peroxiredoxin V; Alu co-repressor 1; thioredoxin reductase; antioxidant enzyme B166; thioredoxin peroxidase PMP20; liver tissue 2D-page spot 71B; peroxisomal antioxidant enzyme; epididymis secretory protein Li 55 |
| UniProt Protein Name             | Peroxiredoxin-5, mitochondrial                                                                                                                                                                                                                                    |
| UniProt Gene Name                | <b>PRDX5</b>                                                                                                                                                                                                                                                      |
| UniProt Synonym Gene Names       | ACR1; AOEB166; Prx-V                                                                                                                                                                                                                                              |
| UniProt Entry Name               | PRDX5_HUMAN                                                                                                                                                                                                                                                       |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/peroxiredoxin-5-antibody-immunohistochemistry-western-blot-elisa/45492>