

## Rabbit Peroxiredoxin 2/PRDX2 Polyclonal Antibody | anti-PRDX2 antibody

Peroxiredoxin 2/PRDX2 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                            |
|-----------|--------|-------------------|---------------------------------------------------------|
| AAA29871  | Rabbit | Human, Mouse, Rat | Western Blot, Immunocytochemistry, Immunohistochemistry |

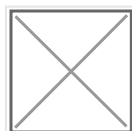
### PRODUCT SYNONYMS

Peroxiredoxin 2/PRDX2; Polyclonal Antibody; Peroxiredoxin 2/PRDX2 Antibody; Epididymis secretory sperm binding protein Li 2a antibody; HEL S 2a antibody; MGC4104 antibody; Natural killer cell enhancing factor B antibody; Natural killer cell-enhancing factor B antibody; Natural Killer Enhancing Factor B antibody; NKEF B antibody; NKEF-B antibody; NKEFB antibody; Peroxiredoxin-2 antibody; PRDX 2 antibody; PRDX2 antibody; PRDX2\_HUMAN antibody; PrP antibody; PRX2 antibody; PRXII antibody; PTX1 antibody; TDPX1 antibody; Thiol Specific Antioxidant 1 antibody; Thiol specific antioxidant protein antibody; Thiol-specific antioxidant protein antibody; Thioredoxin Dependent Peroxide Reductase 1 antibody; Thioredoxin peroxidase 1 antibody; Thioredoxin-dependent peroxide reductase 1 antibody; Torin antibody; TPX1 antibody; TSA antibody; anti-PRDX2 antibody

### PRODUCT SPECIFICATIONS

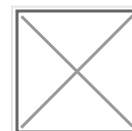
|                                                 |                                                                          |
|-------------------------------------------------|--------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                   |
| Reactivity                                      | Human, Mouse, Rat                                                        |
| Clonality                                       | Polyclonal                                                               |
| Purity/Purification                             | Peptide affinity purified                                                |
| Form/Format                                     | 1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.   |
| Applicable Applications for anti-PRDX2 antibody | WB (Western Blot), ICC (Immunocytochemistry), IHC (Immunohistochemistry) |
| Application Notes                               | WB: 1:500-1:1000<br>IHC: 1:100-1:500<br>ICC: 1:50-1:200                  |
| Immunogen                                       | Peptide                                                                  |
| Conjugation                                     | Unconjugated                                                             |
| Preparation and Storage                         | Store at -20 degree C.                                                   |

### IMAGES



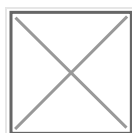
#### ICC (Immunocytochemistry)

ICC staining Peroxiredoxin 2/PRDX2 in SH-SY5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



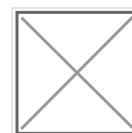
#### ICC (Immunocytochemistry)

ICC staining Peroxiredoxin 2/PRDX2 in SHG-44 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



#### ICC (Immunocytochemistry)

ICC staining Peroxiredoxin 2/PRDX2 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



#### IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-Peroxiredoxin 2/PRDX2 antibody. Counter stained with hematoxylin.

**IHC (Immunohistochemistry)**

Immunohistochemical analysis of paraffin-embedded mouse prostate tissue using anti-Peroxiredoxin 2/PRDX2 antibody. Counter stained with hematoxylin.

**IHC (Immunohistochemistry)**

Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-Peroxiredoxin 2/PRDX2 antibody. Counter stained with hematoxylin.

**ADDITIONAL INFORMATION**

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-PRDX2 antibody</b> | The peroxiredoxin (PRX) family comprises six antioxidant proteins, PRX I, II, III, IV, V and VI, which protect cells from reactive oxygen species (ROS) by preventing the metal-catalyzed oxidation of enzymes. The PRX proteins primarily utilize thioredoxin as the electron donor for antioxidant, although they are fairly promiscuous with regard to the hydroperoxide substrate. In addition to protection from ROS, peroxiredoxins are also involved in cell proliferation, differentiation and gene expression. PRX I, II, IV and VI show diffuse cytoplasmic localizationThe human PRX I gene encodes a protein that is expressed in several tissues, including liver, kidney, testis, lung and nervous system. PRX II is expressed in testis, while PRX III shows expression in lung. PRX I, II and III are overexpressed in breast cancer and may be involved in its development or progression. Upregulated protein levels of PRX I and II in Alzheimer's disease (AD) and Down syndrome (DS) indicate the involvement of PRX I and II in their pathogenesis. |
| <b>Product Categories/Family for anti-PRDX2 antibody</b>   | Total protein Ab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

**NCBI AND UNIPROT INFORMATION**

|                                         |                                                                                                                                                                    |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | 49456535                                                                                                                                                           |
| <b>NCBI GeneID</b>                      | 7001                                                                                                                                                               |
| <b>UniProt Accession #</b>              | P32119; P31945; P32118; P35701; Q6FHG4; Q92763; Q9UC23; A8K0C0                                                                                                     |
| <b>Molecular Weight</b>                 | 21,892 Da                                                                                                                                                          |
| <b>NCBI Official Full Name</b>          | PRDX2                                                                                                                                                              |
| <b>NCBI Official Synonym Full Names</b> | peroxiredoxin 2                                                                                                                                                    |
| <b>NCBI Official Symbol</b>             | PRDX2                                                                                                                                                              |
| <b>NCBI Official Synonym Symbols</b>    | PRP; TSA; PRX2; PTX1; TPX1; NKEFB; PRXII; TDPX1; NKEF-B                                                                                                            |
| <b>NCBI Protein Information</b>         | peroxiredoxin-2; torin; thioredoxin peroxidase 1; thiol-specific antioxidant 1; natural killer cell-enhancing factor B; thioredoxin-dependent peroxide reductase 1 |
| <b>UniProt Protein Name</b>             | Peroxiredoxin-2                                                                                                                                                    |
| <b>UniProt Gene Name</b>                | <b>PRDX2</b>                                                                                                                                                       |
| <b>UniProt Synonym Gene Names</b>       | NKEFB; TDPX1; NKEF-B; TSA                                                                                                                                          |
| <b>UniProt Entry Name</b>               | PRDX2_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-2-prdx2-antibody-western-blot-immunocytochemistry-immunohistochemistry-elisa/29871>