

Rabbit PRDX2 Polyclonal Antibody | anti-PRDX2 antibody

PRDX2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326455	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

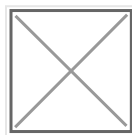
PRODUCT SYNONYMS

PRDX2; Polyclonal Antibody; PRDX2 Antibody; Epididymis secretory sperm binding protein Li 2a; HEL S 2a; MGC4104; Natural killer cell enhancing factor B; Natural killer cell-enhancing factor B; Natural Killer Enhancing Factor B; NKEF B; NKEF-B; NKEFB; Peroxiredoxin-2; PRDX 2; PRDX2_HUMAN; PrP; PRX2; PRXII; PTX1; TDPX1; Thiol Specific Antioxidant 1; Thiol specific antioxidant protein; Thiol-specific antioxidant protein; Thioredoxin Dependent Peroxide Reductase 1; Thioredoxin peroxidase 1; Thioredoxin-dependent peroxide reductase 1; Torin; TPX1; TSA; anti-PRDX2 antibody

PRODUCT SPECIFICATIONS

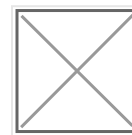
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PRDX2 antibody detects endogenous levels of total PRDX2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	198
Applicable Applications for anti-PRDX2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PRDX2
Subcellular Location	Cytoplasm.
Predicted Cross Reactivity	Bovine, Horse, Sheep, Dog, Xenopus
Similarity	Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Xenopus (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from rat muscle, mouse spleen, using PRDX2 Antibody.



IF (Immunofluorescence)

AAA326455 staining HepG2 cells by IF/ICC. The sample was fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



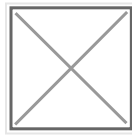
IHC (Immunohistochemisry)

AAA326455 at 1/100 staining Human prostate tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)

AAA326455 staining 293 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of Hela whole cell lysates, using PRDX2 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PRDX2 antibody

Description: This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8(+) T-cells. This protein may have a proliferative effect and play a role in cancer development or progression. The crystal structure of this protein has been resolved to 2.7 angstroms. Transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]
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 H₂O₂.
Subunit Structure: Homodimer; disulfide-linked, upon oxidation (PubMed:27892488). 5 homodimers assemble to form a ring-like decamer (PubMed:27892488). Interacts with TIPIN (PubMed:17141802).
Post-translational Modifications: The enzyme can be inactivated by further oxidation of the cysteine sulfenic acid (C(P)-SOH) to sulphinic acid (C(P)-SO₂H) instead of its condensation to a disulfide bond. It can be reactivated by forming a transient disulfide bond with sulfiredoxin SRXN1, which reduces the cysteine sulfenic acid in an ATP- and Mg-dependent manner.
Similarity: Belongs to the peroxiredoxin family. AhpC/Prx1 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	32189392
NCBI GeneID	7001
NCBI Accession #	NP_005800.3
NCBI GenBank Nucleotide #	NM_005809.5
UniProt Accession #	P32119; P31945; P32118; P35701; Q6FHG4; Q92763; Q9UC23; A8K0C0
Molecular Weight	Observed: 22 kDa Predicted: 22 kDa
NCBI Official Full Name	peroxiredoxin-2
NCBI Official Synonym Full Names	peroxiredoxin 2
NCBI Official Symbol	PRDX2
NCBI Official Synonym Symbols	PRP; TSA; PRX2; PTX1; TPX1; NKEFB; PRXII; TDPX1; NKEF-B; HEL-S-2a
NCBI Protein Information	peroxiredoxin-2
UniProt Protein Name	Peroxiredoxin-2

UniProt Gene Name	PRDX2
UniProt Synonym Gene Names	NKEFB; TDPX1; NKEF-B; TSA

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/prdx2-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326455>