

Rabbit anti-Human peroxiredoxin 2/PRDX2 Polyclonal Antibody | anti-PRDX2 antibody

Anti-peroxiredoxin 2/PRDX2 Antibody Picoband

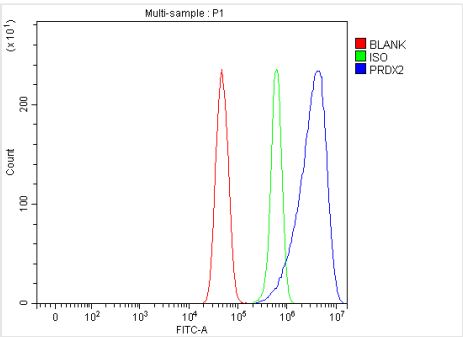
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127090	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

peroxiredoxin 2/PRDX2; Polyclonal Antibody; Anti-peroxiredoxin 2/PRDX2 Antibody Picoband; cholinergic receptor nicotinic alpha 3 subunit ; Neuronal acetylcholine receptor subunit alpha-3; CHRNA3; NACHRA3; anti-PRDX2 antibody

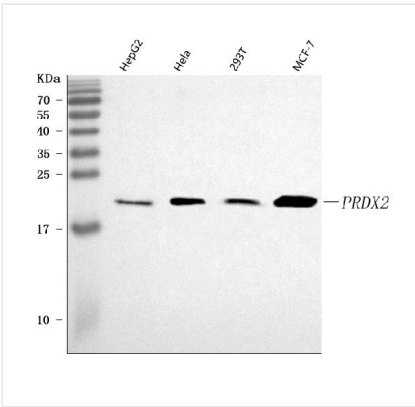
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PRDX2 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human peroxiredoxin 2/PRDX2 recombinant protein (Position: N5-R127).
Subcellular Localization	Cell junction, synapse, postsynaptic cell membrane, Multi-pass membrane protein, Cell membrane, Multi-pass membrane protein
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	After binding acetylcholine, the AChR responds by an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of U251 cells using anti-Peroxiredoxin 2/PRDX2 antibody (AAA127090). Overlay histogram showing U251 cells stained with AAA127090 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Peroxiredoxin 2/PRDX2 Antibody (AAA127090, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of Peroxiredoxin 2/PRDX2 using anti-Peroxiredoxin 2/PRDX2 antibody (AAA127090). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HepG2 whole cell lysates, Lane 2: human Hela whole cell lysates, Lane 3: human 293T whole cell lysates, Lane 4: human MCF-7 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Peroxiredoxin 2/PRDX2 antigen affinity purified polyclonal antibody (#AAA127090) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Peroxiredoxin 2/PRDX2 at approximately 22 kDa. The expected band size for Peroxiredoxin 2/PRDX2 is at 22 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PRDX2 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-PRDX2 antibody	Primary Antibodies; Adaptive Immunity; Immunology; T Cells
References	1. Choi, M. H., Lee, I. K., Kim, G. W., Kim, B. U., Han, Y.-H., Yu, D.-Y., Park, H. S., Kim, K. Y., Lee, J. S., Choi, C., Bae, Y. S., Lee, B. I., Rhee, S. G., Kang, S. W. Regulation of PDGF signalling and vascular remodelling by peroxiredoxin II. Nature 435: 347-353, 2005. 2. Lee, T.-H., Kim, S.-U., Yu, S.-L., Kim, S. H., Park, D. S., Moon, H.-B., Dho, S. H., Kwon, K.-S., Kwon, H. J., Han, Y.-H., Jeong, S., Kang, S. W., Shin, H.-S., Lee, K.-K., Rhee, S. G., Yu, D.-Y. Peroxiredoxin II is essential for sustaining life span of erythrocytes in mice. Blood 101: 5033-5038, 2003. 3. Pahl, P., Berger, R., Hart, I., Chae, H. Z., Rhee, S. G., Patterson, D. Localization of TDPX1, a human homologue of the yeast thioredoxin-dependent peroxide reductase gene (TPX), to chromosome 13q12. Genomics 26: 602-606, 1995.

NCBI AND UNIPROT INFORMATION

NCBI GI #	49456535
NCBI GeneID	7001
UniProt Accession #	P32119; P31945; P32118; P35701; Q6FHG4; Q92763; Q9UC23; A8K0C0
Molecular Weight	21,892 Da
NCBI Official Full Name	PRDX2
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
NCBI Protein Information	peroxiredoxin-2; torin; thioredoxin peroxidase 1; thiol-specific antioxidant 1; natural killer cell-enhancing factor B; thioredoxin-dependent peroxide reductase 1
UniProt Protein Name	Peroxiredoxin-2
UniProt Gene Name	PRDX2
UniProt Synonym Gene Names	NKEFB; TDPX1; NKEF-B; TSA
UniProt Entry Name	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-flow-cytometry-western-blot-elisa/127090>