

Anti-Peroxiredoxin 2 Antibody

R1510-37



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IF-Cell, IHC-P
Molecular Wt:	Predicted band size: 22 kDa

Description: 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 localization. The 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.

Immunogen: Synthetic peptide within Human PRDX2 aa 149-198 / 198.

Positive control: HeLa cell lysate, PC-12 cell lysate, A549 cell lysate, 293T cell lysate, mouse heart tissue lysate, HeLa, SHG-44, SH-SY5Y, human liver tissue, human kidney tissue, mouse brain tissue, mouse prostate tissue, mouse heart tissue.

Subcellular location: Cytoplasm.

Database links: SwissProt: P32119 Human | Q61171 Mouse | P35704 Rat

Recommended Dilutions:

WB	1:1,000-1:5,000
IF-Cell	1:50-1:200
IHC-P	1:100-1:500

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

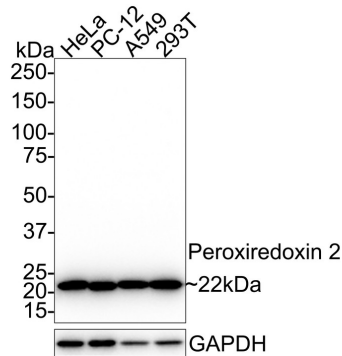
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Images

Fig1: Western blot analysis of Peroxiredoxin 2 on different lysates with Rabbit anti-Peroxiredoxin 2 antibody (R1510-37) at 1/1,000 dilution.

Lane 1: HeLa cell lysate
Lane 2: PC-12 cell lysate
Lane 3: A549 cell lysate
Lane 4: 293T cell lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 22 kDa
Observed band size: 22 kDa

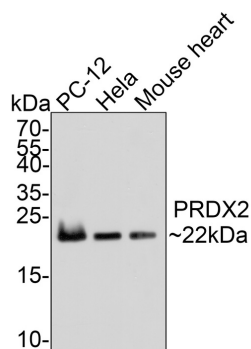
Exposure time: 15 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (R1510-37) at 1/1,000 dilution was used in 5% NFDm/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/100,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of Peroxiredoxin 2 on different lysates with Rabbit anti-Peroxiredoxin 2 antibody (R1510-37) at 1/1,000 dilution.

Lane 1: PC-12 cell lysate (10 µg/Lane)
Lane 2: HeLa cell lysate (10 µg/Lane)
Lane 3: Mouse heart tissue lysate (20 µg/Lane)



Predicted band size: 22 kDa
Observed band size: 22 kDa

Exposure time: 2 minutes;

15% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (R1510-37) at 1/1,000 dilution was used in 5% NFDm/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/300,000 dilution was used for 1 hour at room temperature.

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Fig3: Western blot analysis of Peroxiredoxin 2 on different lysates with Rabbit anti-Peroxiredoxin 2 antibody (R1510-37) at 1/5,000 dilution.

Lane 1: HeLa-si NT cell lysate

Lane 2: HeLa-si Peroxiredoxin 2 cell lysate

Lysates/proteins at 10 µg/Lane.

Predicted band size: 22 kDa

Observed band size: 22 kDa

Exposure time: 3 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (R1510-37) at 1/5,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

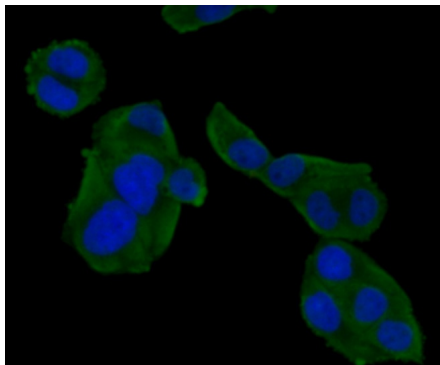
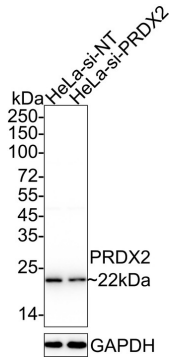


Fig4: ICC staining Peroxiredoxin 2/PRDX2 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

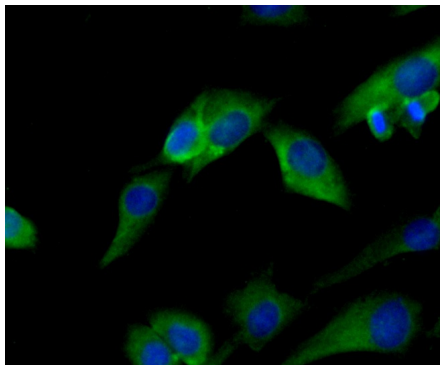


Fig5: ICC staining Peroxiredoxin 2/PRDX2 in SHG-44 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

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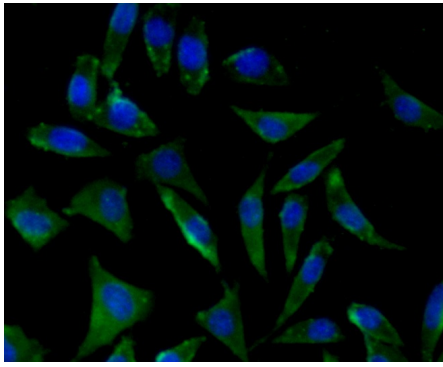


Fig6: ICC staining Peroxiredoxin 2/PRDX2 in SH-SY5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

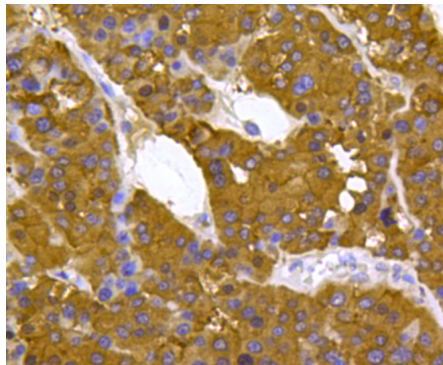


Fig7: Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Peroxiredoxin 2/PRDX2 antibody. Counter stained with hematoxylin.

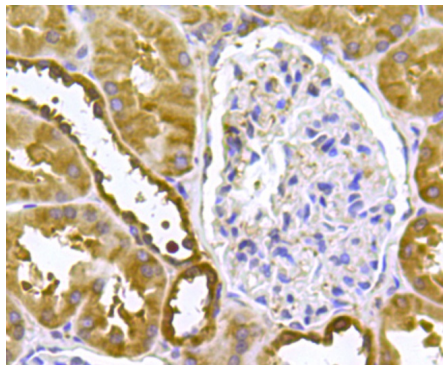


Fig8: Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Peroxiredoxin 2/PRDX2 antibody. Counter stained with hematoxylin.

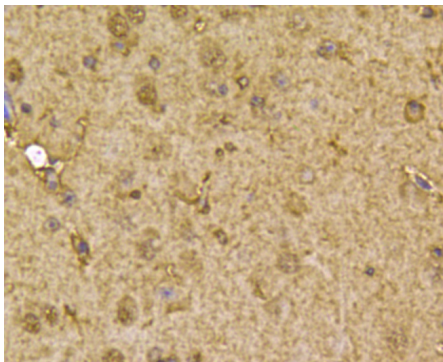


Fig9: Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-Peroxiredoxin 2/PRDX2 antibody. Counter stained with hematoxylin.

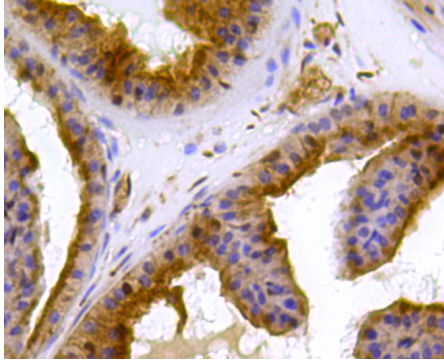


Fig10: Immunohistochemical analysis of paraffin-embedded mouse prostate tissue using anti-Peroxiredoxin 2/PRDX2 antibody. Counter stained with hematoxylin.

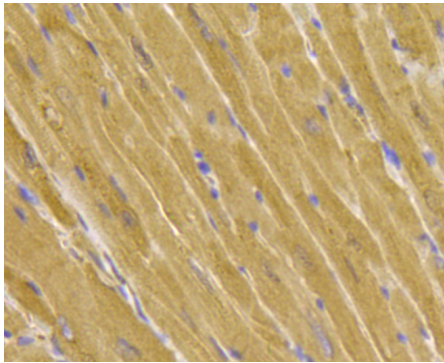


Fig11: Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-Peroxiredoxin 2/PRDX2 antibody. Counter stained with hematoxylin.

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