Anti-Peroxiredoxin 6 Antibody [7G1]

EM1701-73

Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P, IF-Cell, FC
Molecular Wt:	Predicted band size: 25 kDa
Clone number:	7G1

Description: Peroxiredoxin-6 is a protein that in humans is encoded by the PRDX6 gene. It is a member of the peroxiredoxin family of antioxidant enzymes. Peroxiredoxin 6 is widely distributed in several organs, especially the lungs. The protein encoded by this gene is a member of the thiol-specific antioxidant protein family. This protein is a bifunctional enzyme with two distinct active sites. It is involved in redox regulation of the cell; it can reduce H(2)O(2) and short chain organic, fatty acid, and phospholipid hydroperoxides. It may play a role in the regulation of phospholipid turnover as well as in protection against oxidative injury.

Immunogen: Recombinant full length protein of Human PRDX6.

Positive control: PC-3M, K562, A431, SiHa, human liver tissue, human colon cancer tissue, human kidney tissue, human placenta tissue.

Subcellular location: Cytoplasm. Lysosome.

Database links: SwissProt: P30041 Human

Recommended Dilutions:

WB	1:500
IF-Cell	1:50-1:200
IHC-P	1:100-1:400
FC	1:50-1:100

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

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

Purity: Protein G affinity purified.

Images

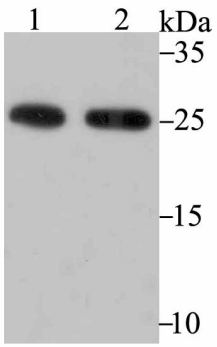

Fig1: Western blot analysis of PRDX6 on PC-3M (1) and K562 (2) using anti-PRDX6 antibody at 1/500 dilution.

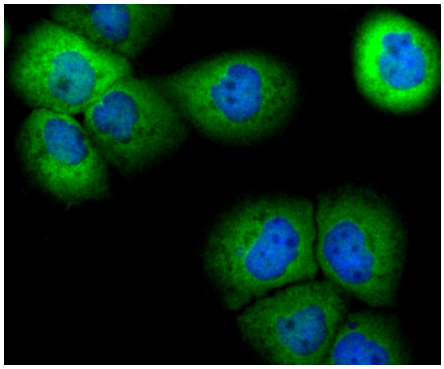

Fig2: ICC staining PRDX6 (green) in A431 cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

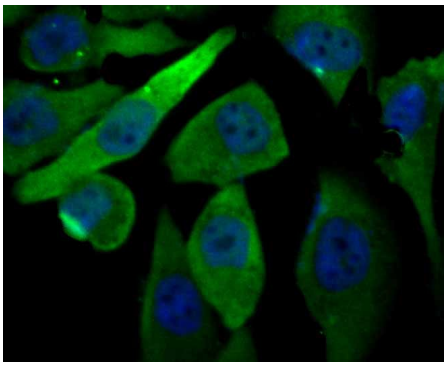

Fig3: ICC staining PRDX6 (green) in PC-3M cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

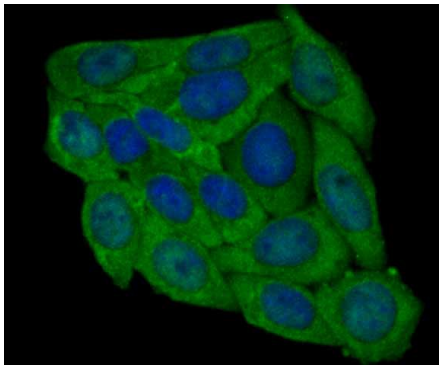

Fig4: ICC staining PRDX6 (green) in SiHa cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

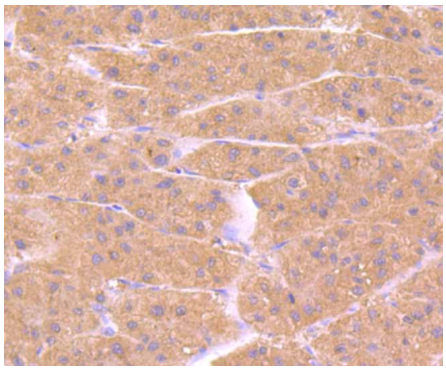

Fig5: Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-PRDX6 antibody. Counter stained with hematoxylin.

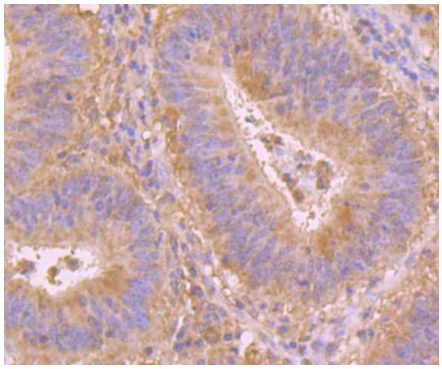

Fig6: Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-PRDX6 antibody. Counter stained with hematoxylin.

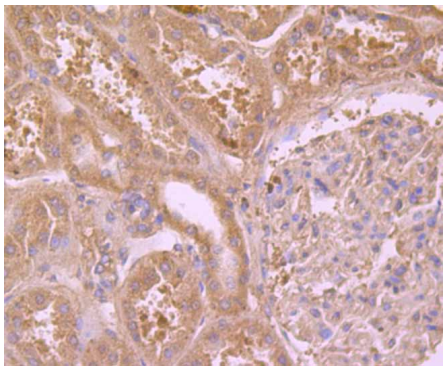

Fig7: Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-PRDX6 antibody. Counter stained with hematoxylin.

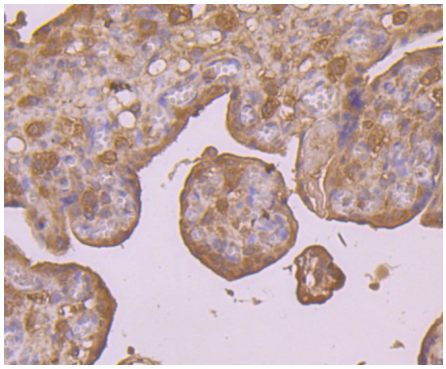

Fig8: Immunohistochemical analysis of paraffin-embedded human placenta tissue using anti-PRDX6 antibody. Counter stained with hematoxylin.

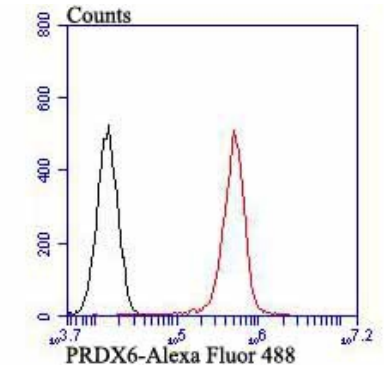

Fig9: Flow cytometric analysis of PC-3M cells with PRDX6 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-mouse IgG was used as the secondary antibody.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Kang S W et al. Characterization of a mammalian peroxiredoxin that contains one conserved cysteine. J Biol Chem 273:6303-6311 (1998).
2. Chen J-W et al. 1-Cys peroxiredoxin, a bifunctional enzyme with glutathione peroxidase and phospholipase A2 activities. J Biol Chem 275:28421-28427 (2000).