

Anti-Peroxiredoxin 6 Antibody [7G1-R]

HA601301



Product Type:	Recombinant Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 25 kDa
Clone number:	7G1-R

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 H₂O₂ 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: HeLa cell lysate, K-562 cell lysate, mouse lung tissue lysate, mouse liver tissue lysate, rat lung tissue lysate, rat liver tissue lysate.

Subcellular location: Cytoplasm. Lysosome.

Database links: SwissProt: P30041 Human | O08709 Mouse | O35244 Rat

Recommended Dilutions:

WB 1:1,000-1:2,000

Storage Buffer: PBS (pH7.4), 0.1% 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: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

Technical: 0086-571-89986345

Service mail: support@huabio.cn

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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

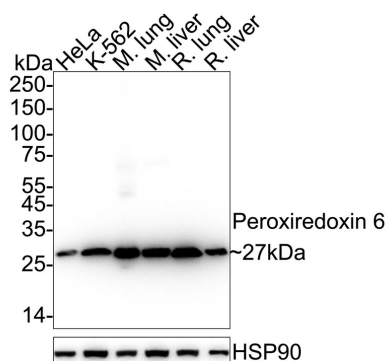


Fig1: Western blot analysis of Peroxiredoxin 6 on different lysates with Mouse anti-Peroxiredoxin 6 antibody (HA601301) at 1/1,000 dilution.

Lane 1: HeLa cell lysate (20 µg/Lane)
 Lane 2: K-562 cell lysate (20 µg/Lane)
 Lane 3: Mouse lung tissue lysate (40 µg/Lane)
 Lane 4: Mouse liver tissue lysate (40 µg/Lane)
 Lane 5: Rat lung tissue lysate (40 µg/Lane)
 Lane 6: Rat liver tissue lysate (40 µg/Lane)

Predicted band size: 25 kDa

Observed band size: 27 kDa

Exposure time: 2 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 (HA601301) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of Peroxiredoxin 6 on different lysates with Mouse anti-Peroxiredoxin 6 antibody (HA601301) at 1/2,000 dilution.

Lane 1: HAP1-parental cell lysate
 Lane 2: HAP1-Peroxiredoxin 6 KD cell lysate

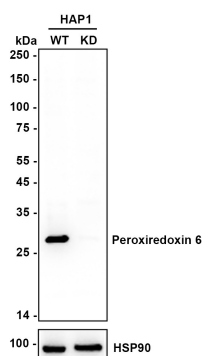
Lysates/proteins at 10 µg/Lane.

Predicted band size: 25 kDa

Observed band size: 27 kDa

Exposure time: 21 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 (HA601301) at 1/2,000 dilution was used in K1803 at 4°C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

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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).

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