

# Anti-Peroxiredoxin 6 Antibody [7G1-R] - BSA and Azide free

## HA610174



<b>Product Type:</b>	Recombinant Mouse monoclonal IgG1, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB
<b>Molecular Wt:</b>	Predicted band size: 25 kDa
<b>Clone number:</b>	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 H<sub>2</sub>O<sub>2</sub> 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).

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

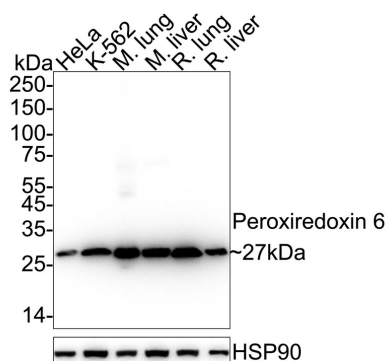
Technical: 0086-571-89986345

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 (HA610174) 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

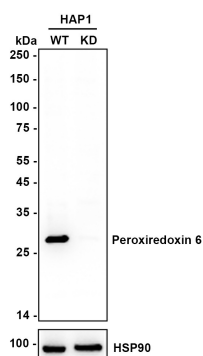
Observed band size: 27 kDa

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 (HA610174) 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 (HA610174) 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 (HA610174) 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".

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### 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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