



# PRDX6 Rabbit mAb

<b>Catalog No</b>	YP-rAb-17335
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human,Mouse,Rat
<b>Applications</b>	WB,IHC,IF,ELISA
<b>Gene Name</b>	PRDX6 AOP2 KIAA0106
<b>Protein Name</b>	Peroxiredoxin-6
<b>Purification Process</b>	Protein A
<b>Specificity</b>	Endogenous
<b>Formulation</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Source</b>	Monoclonal, Rabbit,IgG
<b>Dilution</b>	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
<b>Concentration</b>	0.5 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-15° C to -25° C/1 year(Do not lower than -25° C)
<b>Synonyms</b>	Peroxiredoxin-6 ; 1-Cys peroxiredoxin ; 1-Cys PRX ; 24 kDa protein ; Acidic calcium-independent phospholipase A2 ; aiPLA2 ; Antioxidant protein 2 ; Liver 2D page spot 40 ; Non-selenium glutathione peroxidase ; NSGPx ; Red blood cells page spot 12 ;
<b>Observed Band</b>	25kD
<b>Calculated Molecular Weight</b>	25kD
<b>Cell Pathway</b>	Cytoplasm . Lysosome . Also found in lung secretory organelles (lamellar bodies).
<b>Tissue Specificity</b>	Bone marrow,Brain,Cajal-Retzius cell,Erythrocyte,Fetal brain,Fetal brain cortex,Liver,Plate
<b>Function</b>	Catalytic activity:2 R'-SH + ROOH = R'-S-S-R' + H(2)O + ROH.,Catalytic activity:Donor + H(2)O(2) = oxidized donor + 2 H(2)O.,Function:Involved in redox regulation of the cell. Can reduce H(2)O(2) and short chain organic, fatty acid, and phospholipid hydroperoxides. May play a role in the regulation of phospholipid turnover as well as in protection against oxidative injury.,miscellaneous:Irreversibly inactivated by overoxidation of Cys-47 (to Cys-SO(3)H) upon oxidative stress.,miscellaneous:The active site is the redox-active Cys-47 oxidized to Cys-SOH. Cys-SOH may rapidly react with a Cys-SH of the other subunit to form an intermolecular disulfide with a concomitant

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homodimer formation. The enzyme may be subsequently regenerated by reduction of the disulfide by thioredoxin.,similarity:Belongs to the ahpC/TSA family. Rehydrin subfamily.,similarity:Contains 1 thioredoxin domain.,subcellular location:And also found in lung secretory organelles.,subunit:Homotetramer. May interact with HTR2A (By similarity). Interacts with STH.,

### Background

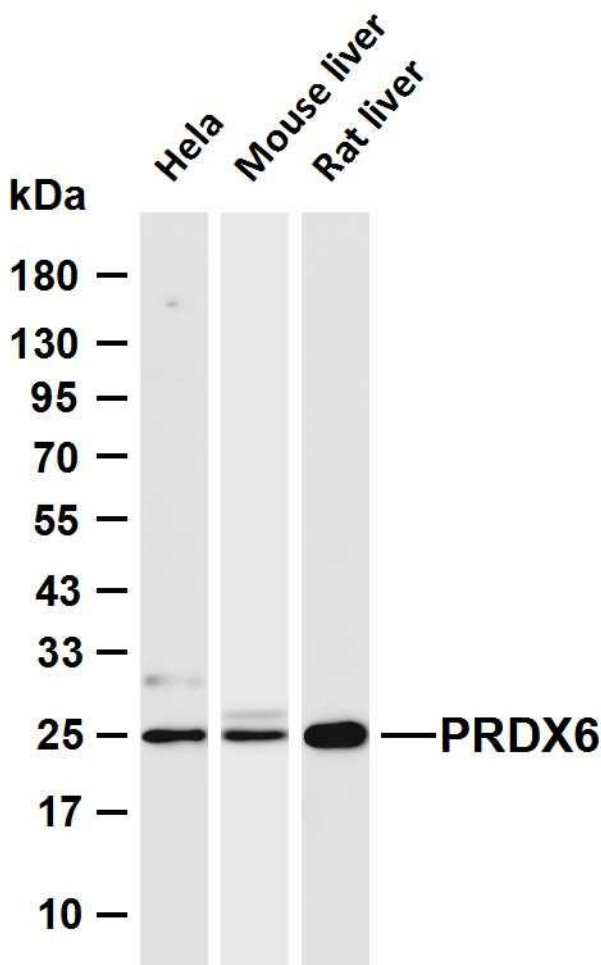
The protein encoded by this gene is a member of the thiol-specific antioxidant protein family. This protein is a bifunctional enzyme with two distinct active sites. It is involved in redox regulation of the cell; it can reduce H<sub>2</sub>O<sub>2</sub> and short chain organic, fatty acid, and phospholipid hydroperoxides. It may play a role in the regulation of phospholipid turnover as well as in protection against oxidative injury. [provided by RefSeq, Jul 2008],

### matters needing attention

Avoid repeated freezing and thawing!

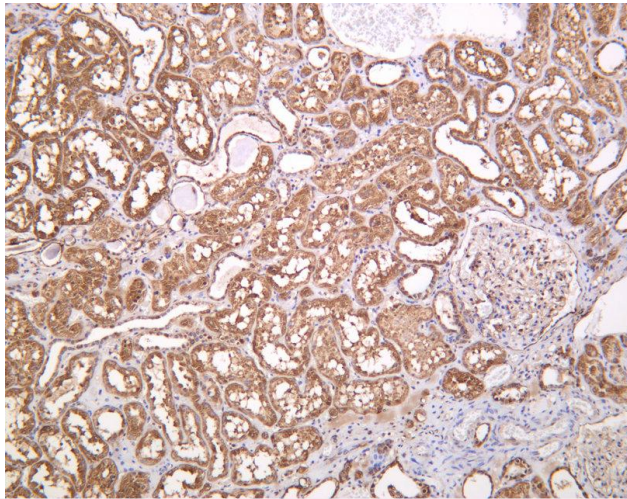
### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-PRDX6 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: Mouse liver Lane 3: Rat liver Predicted band size: 25kDa Observed band size: 25kDa





Human kidney was stained with anti-PRDX6 Rabbit antibody

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