



PRDX6 Rabbit mAb

Catalog No	YP-rAb-17335
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	PRDX6 AOP2 KIAA0106
Protein Name	Peroxiredoxin-6
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	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
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	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 ;
Observed Band	25kD
Calculated Molecular Weight	25kD
Cell Pathway	Cytoplasm . Lysosome . Also found in lung secretory organelles (lamellar bodies).
Tissue Specificity	Bone marrow,Brain,Cajal-Retzius cell,Erythrocyte,Fetal brain,Fetal brain cortex,Liver,Plate
Function	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





homodimer formation. The enzyme may be subsequently regenerated by reduction of the disulfide by thioredoxin.,similarity:Belongs to the ahpC/TSA family. Rehydriin 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

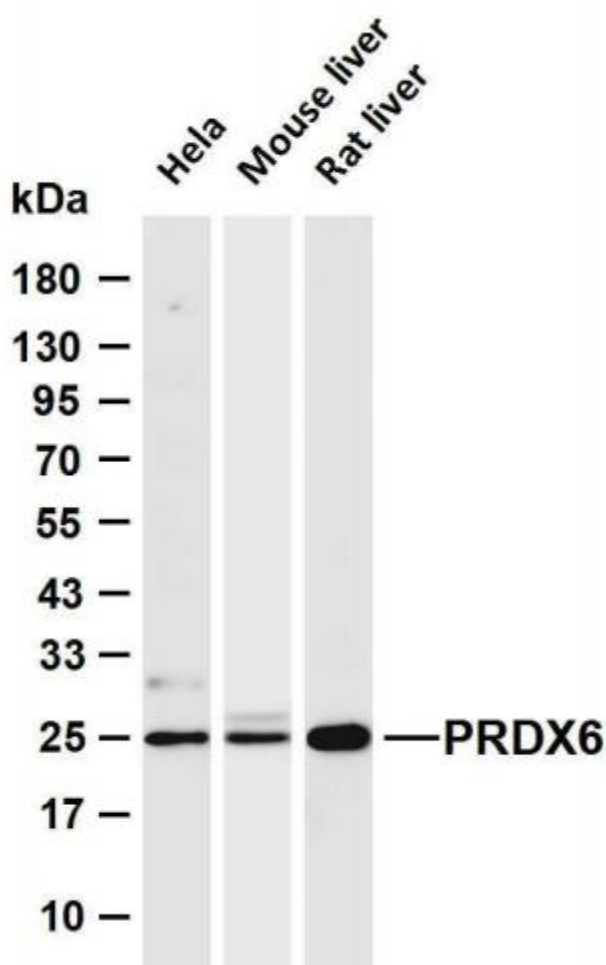
The protein encoded by this gene is a member of the thiol-specific antioxidant protein family. This protein is a bifunctional enzyme with two distinct active sites. It is involved in redox regulation of the cell; it can reduce H₂O₂ and short chain organic, fatty acid, and phospholipid hydroperoxides. It may play a role in the regulation of phospholipid turnover as well as in protection against oxidative injury. [provided by RefSeq, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

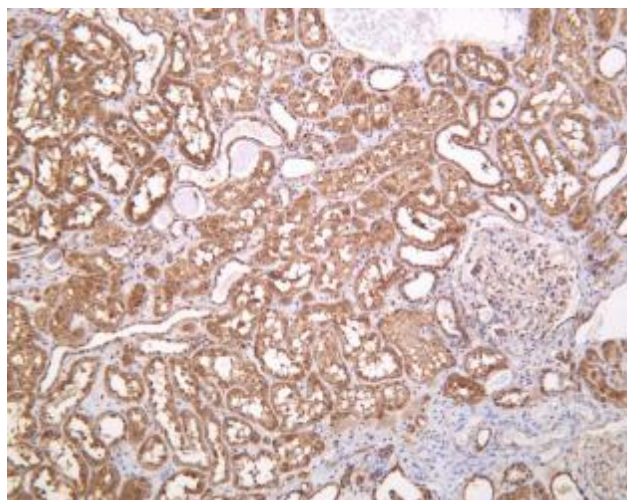
Usage suggestions

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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