

Peroxiredoxin 1 (PT0201R) PT® Rabbit mAb

Catalog No :	YM8127
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IHC;IF;IP;ELISA
Target :	Prdx1
Fields :	>>Peroxisome;>>Amoebiasis
Gene Name :	PRDX1
Protein Name :	Peroxiredoxin-1
Human Gene Id :	5052
Human Swiss Prot No :	Q06830
Mouse Gene Id :	18477
Mouse Swiss Prot No :	P35700
Rat Gene Id :	117254
Rat Swiss Prot No :	Q63716
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	IHC 1:200-1:1000,WB 1:1000-1:5000,IF 1:200-1:1000,ELISA 1:5000-1:20000,IP 1:50-1:200,
Purification :	Protein A

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 22kD

Observed Band : 26kD

Background : This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8(+) T-cells. This protein may have a proliferative effect and play a role in cancer development or progression. Four transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq, Jan 2011],

Function : catalytic activity:2 R'-SH + ROOH = R'-S-S-R' + H(2)O + ROH.,function:Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system but not from glutaredoxin. May play an important role in eliminating peroxides generated during metabolism. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H(2)O(2).,induction:Constitutively expressed in most human cells; is induced to higher levels upon serum stimulation in untransformed and transformed cells.,miscellaneous:Inactivated upon oxidative stress by overoxidation of Cys-52 to Cys-SO(2)H and Cys-SO(3)H. Cys-SO(2)H is retroreduced to Cys-SOH after removal of H(2)O(2), while Cys-SO(3)H may be irreversibly oxidized.,miscellaneous:The active site is the redox-active Cys-52 oxidized to Cys-SOH.

Subcellular Location : Cytoplasm

Expression : Brain,Cajal-Retzius cell,Fetal brain cortex,Urinary bladder,

Tag : hot,recombinant

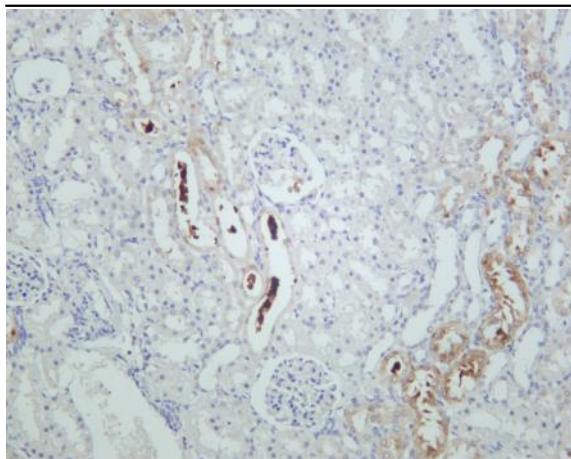
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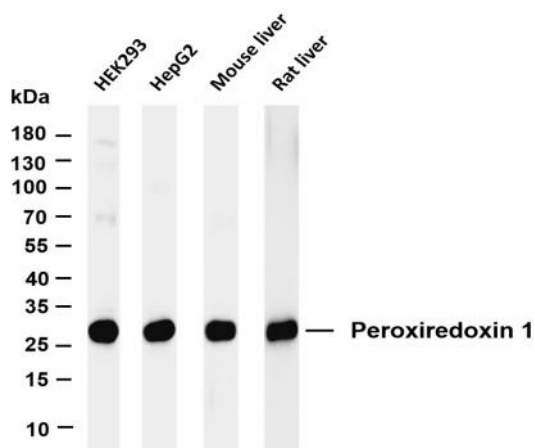
Host : Rabbit

Modifications : Unmodified

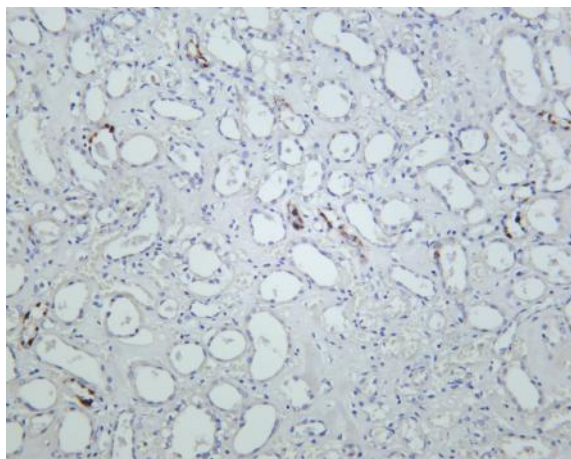
Products Images



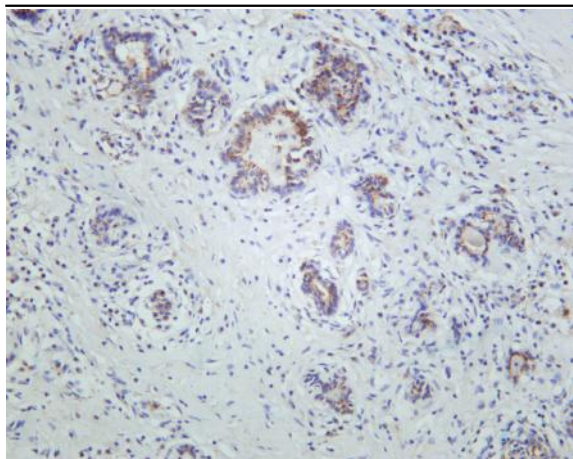
Rat kidney was stained with anti-Peroxiredoxin 1 (PT0201R) rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Peroxiredoxin 1 (PT0201R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HEK293 Lane 2: HepG2 Lane 3: Mouse liver Lane 4: Rat liver
Predicted band size: 22kDa Observed band size: 26kDa



Human kidney was stained with anti-Peroxiredoxin 1 (PT0201R) rabbit antibody



Human thyroid was stained with anti-Peroxiredoxin 1 (PT0201R) rabbit antibody