

## Prdx1 (Phospho Tyr194) rabbit pAb

<b>Catalog No :</b>	YP1450
<b>Reactivity :</b>	Human;Rat;Mouse;
<b>Applications :</b>	WB;ELISA;IHC
<b>Target :</b>	Prdx1
<b>Fields :</b>	>>Peroxisome;>>Amoebiasis
<b>Gene Name :</b>	PRDX1 PAGA PAGB TDPX2
<b>Protein Name :</b>	Prdx1 (Tyr194) ,Peroxiredoxin-1
<b>Human Gene Id :</b>	5052
<b>Human Swiss Prot No :</b>	Q06830
<b>Mouse Gene Id :</b>	18477
<b>Mouse Swiss Prot No :</b>	P35700
<b>Rat Gene Id :</b>	117254
<b>Rat Swiss Prot No :</b>	Q63716
<b>Immunogen :</b>	Synthesized phosho peptide around human Prdx1 (Tyr194)
<b>Specificity :</b>	This antibody detects endogenous levels of Human Prdx1 (phospho-Tyr194)
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000
<b>Purification :</b>	The antibody was affinity-purified from rabbit serum by affinity-chromatography

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using specific immunogen.

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**Concentration :** 1 mg/ml

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

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**Observed Band :** 21kD

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**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],

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**Function :** catalytic activity:  $2 \text{ R}'\text{-SH} + \text{ROOH} = \text{R}'\text{-S-S-R}' + \text{H}_2\text{O} + \text{ROH}$ .,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  $\text{H}_2\text{O}_2$ .,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  $\text{H}_2\text{O}_2$ , while Cys-SO(3)H may be irreversibly oxidized.,miscellaneous:The active site is the redox-active Cys-52 oxidized to Cys-SOH.

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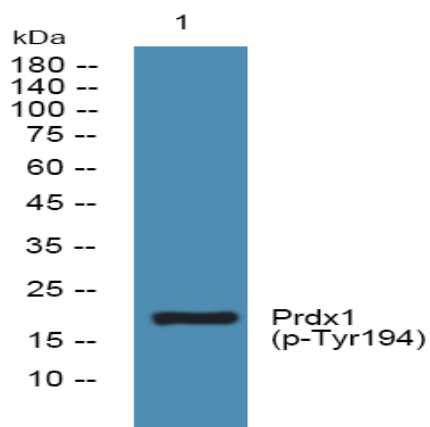
**Subcellular Location :** Cytoplasm . Melanosome . Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

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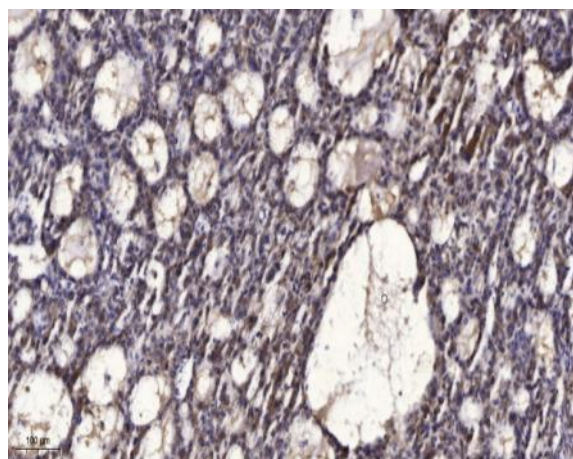
**Expression :** Brain,Cajal-Retzius cell,Fetal brain cortex,Urinary bladder,

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## Products Images



Western blot analysis of lysates from K562 cells, primary antibody was diluted at 1:1000, 4° over night



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).