



Prdx1 (phospho-Tyr194) rabbit pAb

Catalog No	YP-Ab-03637
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA;IHC
Gene Name	PRDX1 PAGA PAGB TDPX2
Immunogen	Synthesized phosho peptide around human Prdx1 (Tyr194)
Specificity	This antibody detects endogenous levels of Human Prdx1 (phospho-Tyr194)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Dilution	WB 1:500-2000;IHC-p 1:50-300; ELISA 2000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Heme binding 23 kDa protein;MSP23;Natural killer cell-enhancing factor A; NKEF A;NKEF-A;NKEFA;OSF3;Osteoblast specific factor 3;PAG;Paga;PAGB; Peroxiredoxin-1;PRDX1;PRDX1_HUMAN;Proliferation associated gene A; Proliferation-associated gene protein;PRX1;PrxI;TDPX2;Thioredoxin peroxidase 2;Thioredoxin-dependent peroxide reductase 2;PRDX1 PAGA PAGB TDPX2; Prdx1 (Tyr194);Peroxiredoxin-1 (EC 1.11.1.15) (Natural killer cell-enhancing factor A) (NKEF-A) (Proliferation-associated gene protein) (PAG) (Thioredoxin peroxidase 2) (Thioredoxin-dependent peroxide reductase 2)
Observed Band	21kD
Calculated Molecular Weight	21kD
Cell Pathway	Cytoplasm . Melanosome . Identified by mass spectrometry in melanosome fractions from stage I to stage IV.
Tissue Specificity	Brain,Cajal-Retzius cell,Fetal brain cortex,Urinary bladder,
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_2O_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_2O_2 , while Cys-SO(3)H may be irreversibly oxidized.
miscellaneous: The active site is the redox-active Cys-52 oxidized to Cys-SOH.

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],

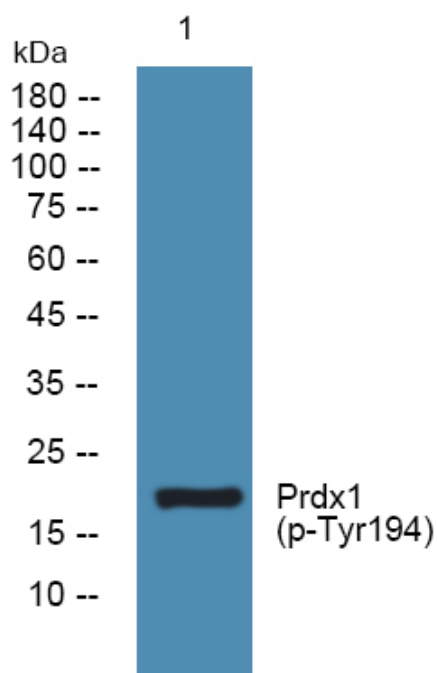
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

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

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).