PRX I Polyclonal Antibody

E20|533349

Applications:	WB,IHC-p
Reactivity:	Human,Mouse,Rat
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Immunogen:	Recombinant Protein of Peroxiredoxin-1
Specificity/Sensitivity:	The antibody detects endogenous PRX I protein.
Other Names:	PRDX1; PAGA; PAGB; TDPX2; Peroxiredoxin-1; Natural killer cell-enhancing factor A; NKEF-A; Proliferation-associated gene protein; PAG; Thioredoxin peroxidase 2; Thioredoxin-dependent peroxide reductase 2Observed Band(KD):21
Storage/Stability:	Stability:-20°C/1 year
Source:	Rabbit
Form of Antibody:	Name:PRX I Polyclonal Antibody

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	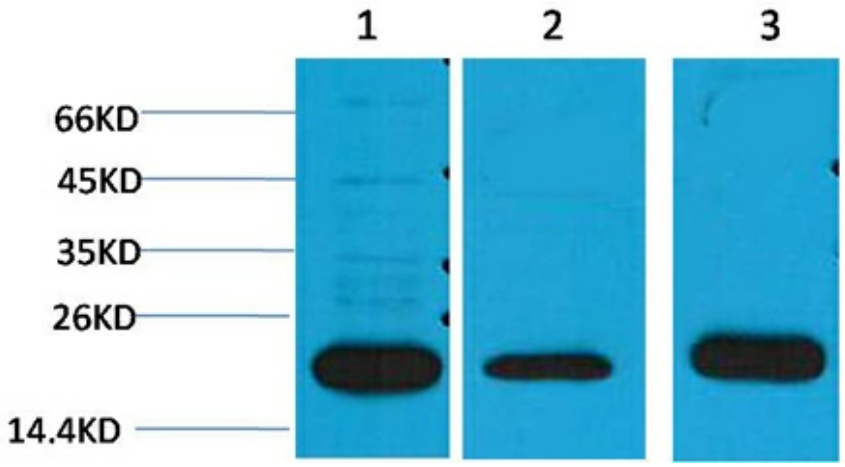
	Western blot analysis of 1) Hela, 2) Mouse Brain, 3) Rat Brain using PRX I Polyclonal Antibody. Secondary antibody was diluted at 1:20000.
Gene Name:	PRDX1Protein Name:Peroxiredoxin-1 Human Gene Id:5052 Human Swiss Prot No:Q06830 Mouse Swiss Prot No:P35700 Rat Swiss Prot No:Q63716
Dilution:	WB: 1:500-1000 IHC: 1:200-500
Background:	peroxiredoxin 1(PRDX1) Homo sapiens 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.

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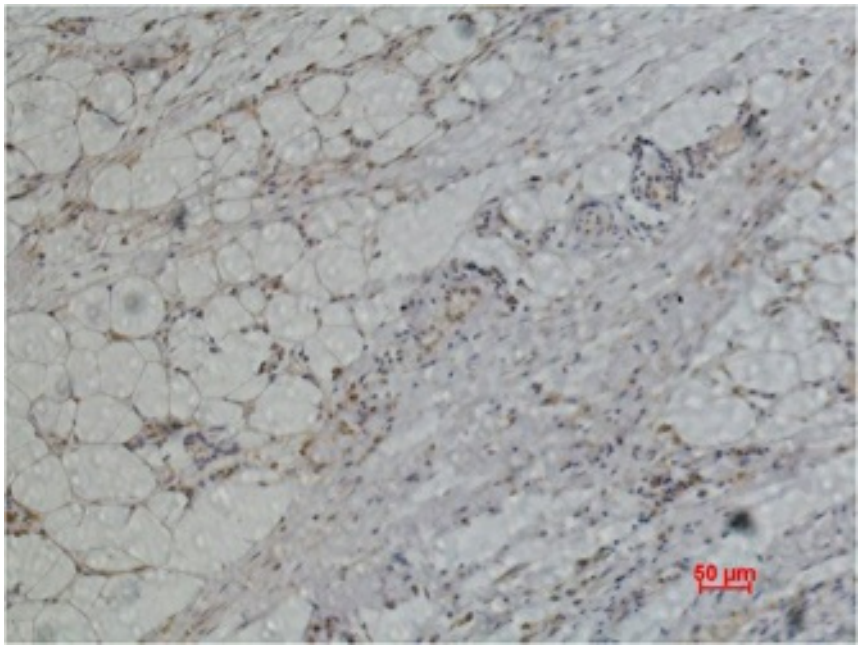
	May play an important role in eliminating peroxides generated during metabolism. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H(2)O(2).,induction:Constitutively expressed in most human cells; is induced 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.
Formulation:	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.
Cellular localization:	extracellular space,cell,nucleus,cytoplasm,mitochondrion,cytosol,cell-cell adherens junction,extracellular matrix,melanosome,myelin sheath,extracellular exosome.Expression:Brain,Cajal-Retzius cell,Fetal brain cortex,Urinary bladder.
	

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	Immunohistochemical analysis of paraffin- embedded Human Heptocaricnoma using PRX I Polyclonal Antibody.