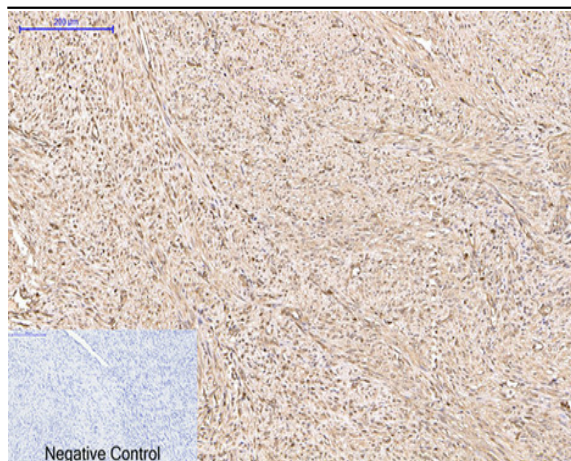


Peroxiredoxin 1 Monoclonal Antibody(8E7)

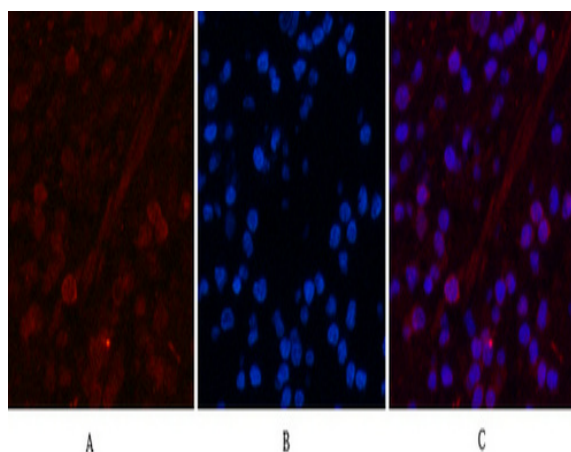
Catalog No :	YM3112
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF
Target :	Prdx1
Fields :	>>Peroxisome;>>Amoebiasis
Gene Name :	PRDX1
Protein Name :	Peroxiredoxin-1
Human Gene Id :	5052
Human Swiss Prot No :	Q06830
Mouse Gene Id :	18477
Mouse Swiss Prot No :	P35700
Rat Gene Id :	117254
Rat Swiss Prot No :	Q63716
Immunogen :	Recombinant Protein of Peroxiredoxin-1
Specificity :	The antibody detects endogenous Peroxiredoxin 1 protein.
Formulation :	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.
Source :	Monoclonal, Mouse
Dilution :	WB 1:1000-3000 IF 1:100-200 IHC 1:50-300

Purification :	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	21kD
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 :	<p>catalytic activity:2 R'-SH + ROOH = R'-S-S-R' + H₂O + 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 H₂O₂.,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-SO₂H and Cys-SO₃H. Cys-SO₂H is retroreduced to Cys-SOH after removal of H₂O₂, while Cys-SO₃H may be irreversibly oxidized.,miscellaneous:The active site is the redox-active Cys-52 oxidized to Cys-SOH.</p>
Subcellular Location :	Cytoplasm . Melanosome . Identified by mass spectrometry in melanosome fractions from stage I to stage IV.
Expression :	Brain,Cajal-Retzius cell,Fetal brain cortex,Urinary bladder,

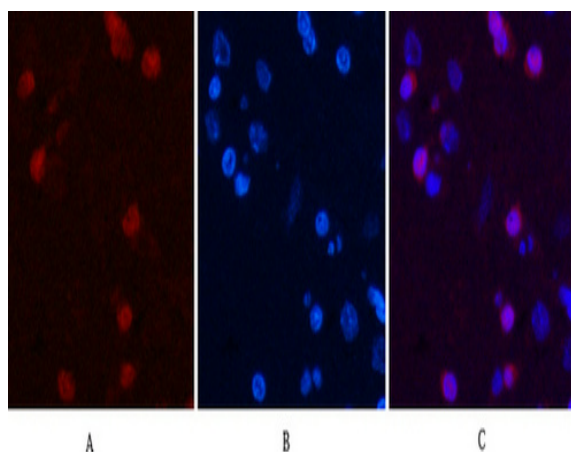
Products Images



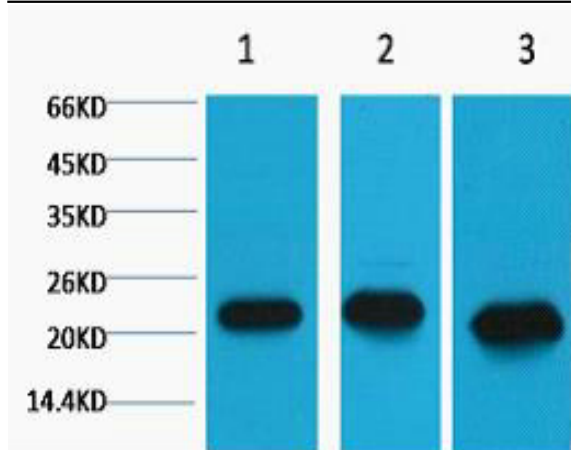
Immunohistochemical analysis of paraffin-embedded Human-uterus-cancer tissue. 1, Peroxiredoxin 1 Monoclonal Antibody(8E7) was diluted at 1:200(4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C, 20min). 3, Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



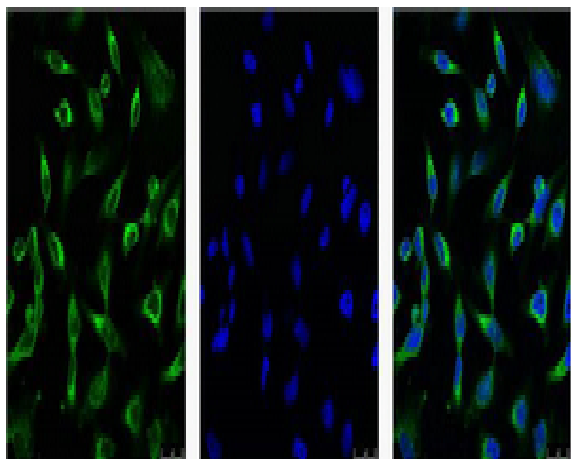
Immunofluorescence analysis of Human-appendix tissue. 1, Peroxiredoxin 1 Monoclonal Antibody(8E7)(red) was diluted at 1:200(4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min). 3, Picture B: DAPI(blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of Rat-brain tissue. 1, Peroxiredoxin 1 Monoclonal Antibody(8E7)(red) was diluted at 1:200(4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min). 3, Picture B: DAPI(blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Western blot analysis of 1) MCF7, 2) Rat Kidney Tissue, 3) Mouse Brain Tissue, diluted at 1:2000.



IF analysis of Hela with antibody (Left) and DAPI (Right) diluted at 1:100.