

Peroxiredoxin 1 (8E7) Mouse mAb

CatalogNo: YM3112

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF

MW

- 21kD (Observed)

Storage

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

Formulation PBS, pH 7.4, containing 0.5% BSA, 0.02% sodium azide as Preservative and 50% Glycerol.

Recommended Dilution Ratios

WB 1:1000-3000

IF 1:100-200

IHC 1:50-300

Basic Information

Clonality Monoclonal

Clone Number 8E7

Immunogen Information

Immunogen Recombinant Protein of Peroxiredoxin-1

Specificity The antibody detects endogenous Peroxiredoxin 1 protein.

Target Information

Gene name PRDX1

Protein Name Peroxiredoxin-1

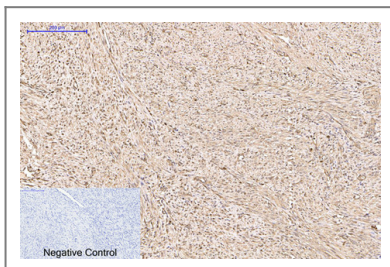
Organism	Gene ID	UniProt ID
Human	5052 ;	Q06830 ;
Mouse	18477 ;	P35700 ;
Rat	117254 ;	Q63716 ;

Cellular Localization Cytoplasm . Melanosome . Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

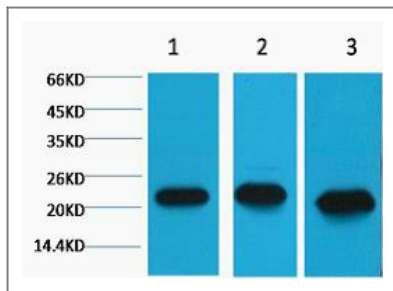
Tissue specificity Brain,Cajal-Retzius cell,Fetal brain cortex,Urinary bladder,

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(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. Cys-SOH rapidly reacts with Cys-173-SH of the other subunit to form an intermolecular disulfide with a concomitant homodimer formation. The enzyme may be subsequently regenerated by reduction of the disulfide by thioredoxin.,PTM:Phosphorylated on Thr-90 during the M-phase, which leads to a more than 80% decrease in enzymatic activity.,similarity:Belongs to the ahpC/TSA family.,similarity:Contains 1 thioredoxin domain.,subcellular location:Identified by mass spectrometry in melanosome fractions from stage I to stage IV.,subunit:Homodimer; disulfide-linked, upon oxidation (By similarity). May form heterodimers with AOP2.,

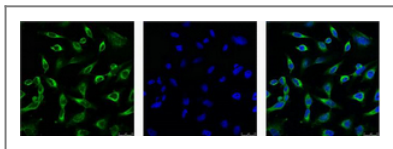
Validation Data



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.



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.

Contact information

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Peroxiredoxin 1 (8E7) Mouse mAb

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