

## PRX I Rabbit pAb

CatalogNo: YT5455

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 21kD (Observed)

#### Isotype

- IgG

### Recommended Dilution Ratios

**WB 1:500-1:2000**

**IHC: 1:100-1:300**

**ELISA 1:20000**

**IF 1:50-200**

### Storage

#### Storage\*

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

#### Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Basic Information

#### Clonality

Polyclonal

### Immunogen Information

#### Immunogen

The antiserum was produced against synthesized peptide derived from the Internal region of human PRDX1. AA range: 31-80

#### Specificity

PRX I Polyclonal Antibody detects endogenous levels of PRX I protein.

### Target Information

**Gene name** PRDX1

**Protein Name** Peroxiredoxin-1

Organism	Gene ID	UniProt ID
Human	<a href="#">5052</a> ;	<a href="#">Q06830</a> ;
Mouse	<a href="#">18477</a> ;	<a href="#">P35700</a> ;
Rat	<a href="#">117254</a> ;	<a href="#">Q63716</a> ;

**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

## | Contact information

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