

PRX III Rabbit pAb

CatalogNo: YT3873

Orthogonal Validated Comparable Abs 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IP, IF, ELISA

MW

- 26kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-1:2000

IHC: 1:50-300

IP 1:50-200

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

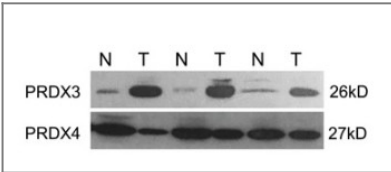
Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human PRX III. AA range: 44-93**Specificity** PRX III Polyclonal Antibody detects endogenous levels of PRX III protein.

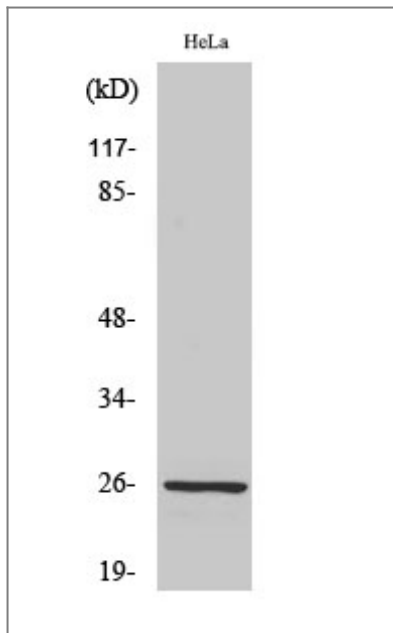
Target Information

Gene name	PRDX3		
Protein Name	Thioredoxin-dependent peroxide reductase mitochondrial		
	Organism	Gene ID	UniProt ID
	Human	10935 ;	P30048 ;
	Mouse	11757 ;	P20108 ;
	Rat	64371 ;	Q9Z0V6 ;
Cellular Localization	Mitochondrion . Cytoplasm . Early endosome . Localizes to early endosomes in a RPS6KC1-dependent manner. .		
Tissue specificity	Blood,Bone marrow,Brain,Cajal-Retzius cell,Cerebellum,Fetal brain cortex,Liver,Lung,Skeleta		
Function	Catalytic activity:2 R'-SH + ROOH = R'-S-S-R' + H(2)O + ROH.,Function:Involved in redox regulation of the cell. Protects radical-sensitive enzymes from oxidative damage by a radical-generating system. Acts synergistically with MAP3K13 to regulate the activation of NF-kappa-B in the cytosol.,miscellaneous:Irreversibly inactivated by overoxidation of Cys-108 (to Cys-SO(3)H) upon oxidative stress.,miscellaneous:The active site is the redox-active Cys-108 oxidized to Cys-SOH. Cys-SOH rapidly reacts with Cys-229-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.,similarity:Belongs to the ahpC/TSA family.,similarity:Contains 1 thioredoxin domain.,subunit:Homodimer; disulfide-linked, upon oxidation (By similarity). Binds MAP3K13.,		

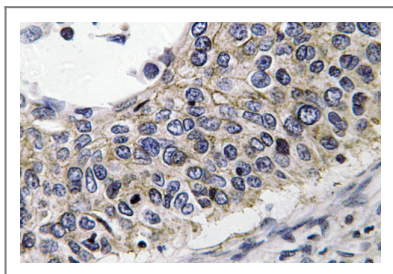
Validation Data



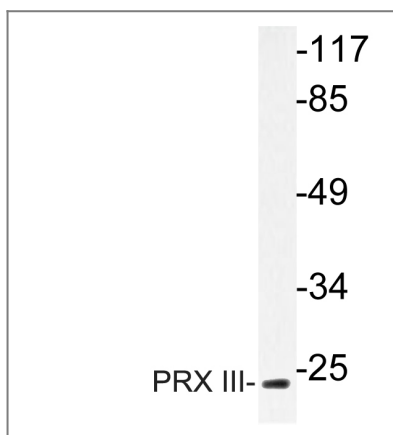
Zhang, Hua, et al. "Differential expression of peroxiredoxin 3 in laryngeal squamous cell carcinoma." Oncotarget 8.2 (2017): 3471.



Western Blot analysis of various cells using PRX III Polyclonal Antibody diluted at 1:1000



Immunohistochemistry analysis of PRX III antibody in paraffin-embedded human lung carcinoma tissue.



Western blot analysis of lysate from HeLa cells, using PRX III antibody.

Contact information

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