

For Research Use Only

# PRDX3 Polyclonal antibody

Catalog Number: 10664-1-AP

Featured Product

31 Publications



## Basic Information

### Catalog Number:

10664-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1062

### GenBank Accession Number:

BC007062

### GeneID (NCBI):

10935

### UNIPROT ID:

P30048

### Full Name:

peroxiredoxin 3

### Calculated MW:

27 kDa

### Observed MW:

26-28 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB** : HeLa cells, HEK-293 cells, MCF-7 cells, LNCaP cells, mouse brain tissue, mouse heart tissue, rat brain tissue

**IHC** : human lung cancer tissue,

**IF/ICC** : HepG2 cells,

## Background Information

PRDX3(Peroxiredoxin 3), also named as AOP1, HBC189 and MER5, belongs to the ahpC/TSA family. It is involved in redox regulation of the cell and protects radical-sensitive enzymes from oxidative damage by a radical-generating system. PRDX3 is required for MYC-mediated proliferation, transformation, and apoptosis after glucose withdrawal and essential for maintaining mitochondrial mass and membrane potential in transformed rat and human cells (PMID:12011429). PRDX3 acts synergistically with MAP3K13 to regulate the activation of NF-kappa-B in the cytosol.

## Notable Publications

Author	Pubmed ID	Journal	Application
Ling Fu	31411056	Antioxid Redox Signal	WB
Caitlin E. Miller	36358489	Antioxidants (Basel)	WB
Eirini Meimaridou	29046340	J Endocrinol	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

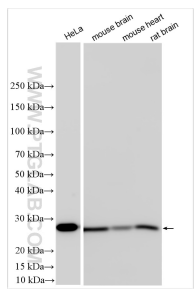
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

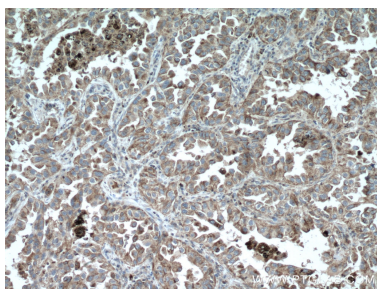
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

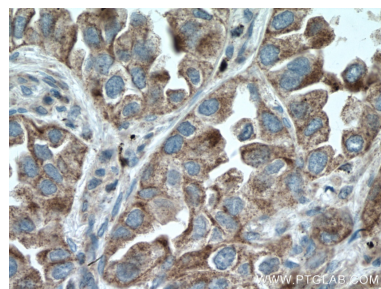
Selected Validation Data



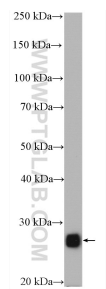
Various lysates were subjected to SDS PAGE followed by western blot with 10664-1-AP (PRDX3 antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



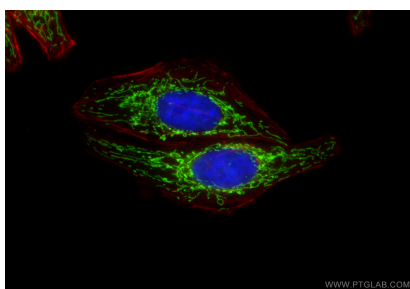
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 10664-1-AP (PRDX3 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



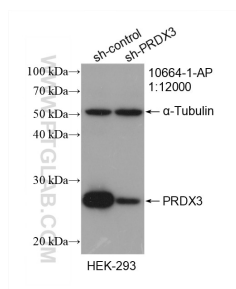
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 10664-1-AP (PRDX3 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



HeLa cells were subjected to SDS PAGE followed by western blot with 10664-1-AP (PRDX3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using PRDX3 antibody (10664-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



WB result of PRDX3 antibody (10664-1-AP; 1:12000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PRDX3 transfected HEK-293 cells.