

For Research Use Only

# PRDX1 Recombinant antibody

Catalog Number: 86589-2-RR



## Basic Information

Catalog Number:	86589-2-RR	GenBank Accession Number:	BC007063	Purification Method:	Protein A purification
Concentration:	1000 µg/ml	GenID (NCBI):	5052	CloneNo.:	251425B2
Source:	Rabbit	UNIPROT ID:	Q06830	Recommended Dilutions:	WB: 1:5000-1:50000 IF/ICC: 1:250-1:1000
Isotype:	IgG	Full Name:	peroxiredoxin 1		
Immunogen Catalog Number:	AG8602	Calculated MW:	199 aa, 22 kDa		
		Observed MW:	23 kDa		

## Applications

Tested Applications:	WB, IF/ICC, ELISA	Positive Controls:	
Species Specificity:	human, rat	WB:	K-562 cells, Jurkat cells, A549 cells, HSC-T6 cells, rat kidney tissue

IF/ICC: HeLa cells, HepG2 cells

## Background Information

PRDX1 (Peroxiredoxin-1), also named as PAGA, PAGB, TDPX2, PAG or NKEF-A, belongs to the ahpC/TSA family. PRDX1 is a thiol reductase that plays critical roles in oxidative and thermal stress defense mechanisms through its abilities to metabolize H<sub>2</sub>O<sub>2</sub> and act as a molecular chaperone, respectively. PRDX1 might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H<sub>2</sub>O<sub>2</sub> (PMID: 9497357). It reduces an intramolecular disulfide bond in GPD5 that gates the ability to GPD5 to drive postmitotic motor neuron differentiation. PRDX1 can form a dimer, and also can be phosphorylated on Thr-90 during the M-phase, which leads to a more than 80% decrease in enzymatic activity (PMID: 22583657, 11986303).

## Storage

Storage: Store at -20°C. Stable for one year after shipment.  
Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

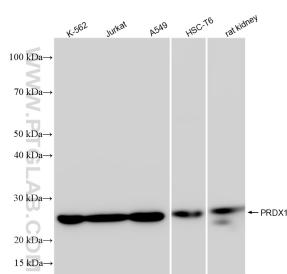
T: 4006900926

E: Proteintech-CN@ptglab.com

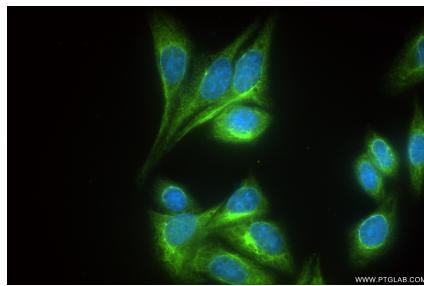
W: ptgcn.com

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

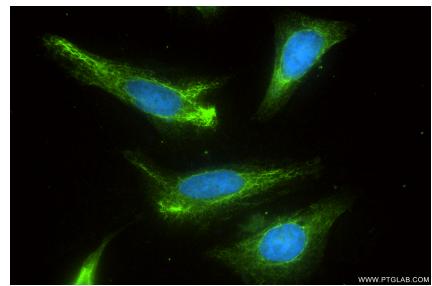
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86589-2-RR (PRDX1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using PRDX1 antibody (86589-2-RR, Clone: 251425B2) at dilution of 1:500 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PRDX1 antibody (86589-2-RR, Clone: 251425B2) at dilution of 1:500 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).