

PRDX1 Recombinant antibody

Catalog Number: 86589-2-RR

Basic Information

Catalog Number: 86589-2-RR	GenBank Accession Number: BC007063	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (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 H₂O₂ and act as a molecular chaperone, respectively. PRDX1 might participate in the signaling cascades of growth factors and tumor necrosis factor- α by regulating the intracellular concentrations of H₂O₂ (PMID: 9497357). It reduces an intramolecular disulfide bond in GTPD5 that gates the ability to GTPD5 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

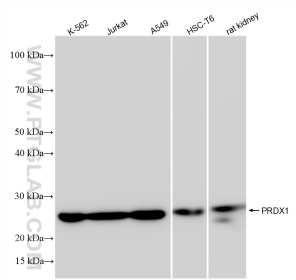
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

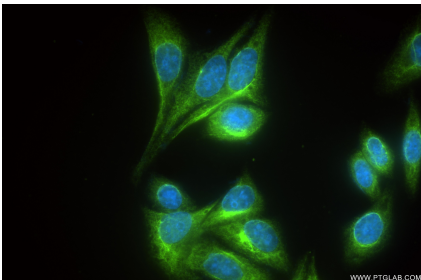
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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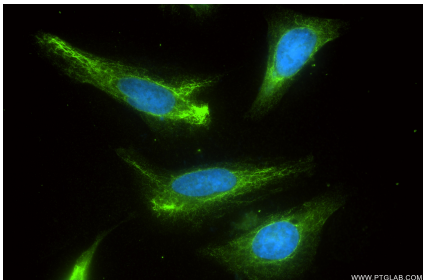
Selected Validation Data



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).