

For Research Use Only

PRDX1 Polyclonal antibody

Catalog Number: 20568-1-AP

Featured Product

1 Publications



Basic Information

Catalog Number:

20568-1-AP

Size:

800 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_002574

GeneID (NCBI):

5052

UNIPROT ID:

Q06830

Full Name:

peroxiredoxin 1

Calculated MW:

22 kDa

Observed MW:

23 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : HEK-293 cells, HeLa cells, Jurkat cells, MCF-7 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). The antibody is specific to PRDX1.

Notable Publications

Author	Pubmed ID	Journal	Application
Huifang Zhu	31130519	Cell Chem Biol	

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

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

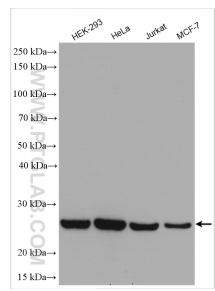
T: 4006900926

E: Proteintech-CN@ptglab.com

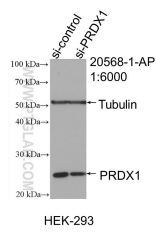
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 20568-1-AP (PRDX1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



WB result of PRDX1 antibody (20568-1-AP; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PRDX1 transfected HEK-293 cells.