

PRDX1 Recombinant antibody

Catalog Number: 86589-2-RR

Basic Information

Catalog Number:

86589-2-RR

Concentration:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8602

GenBank Accession Number:

BC007063

GeneID (NCBI):

5052

UNIPROT ID:

Q06830

Full Name:

peroxiredoxin 1

Calculated MW:

199 aa, 22 kDa

Observed MW:

23 kDa

Purification Method:

Protein A purification

CloneNo.:

251425B2

Recommended Dilutions:

WB: 1:5000-1:50000

IF/ICC: 1:250-1:1000

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

human, rat

Positive Controls:

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

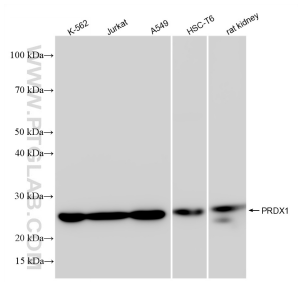
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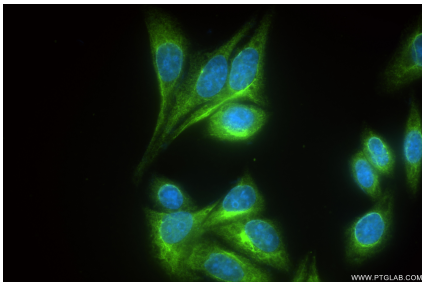
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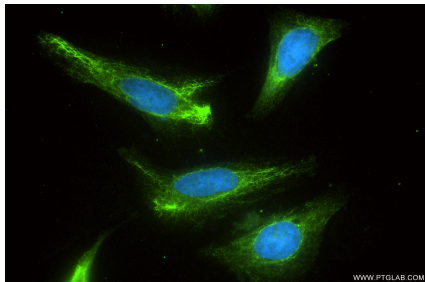
Selected Validation Data



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).