

For Research Use Only

CoraLite®594-conjugated PRDX1 Monoclonal antibody

Catalog Number:CL594-66820

Featured Product



Basic Information

Catalog Number:

CL594-66820

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG8821

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 G purification

CloneNo.:

2B2A2

Recommended Dilutions:

IF-P 1:50-1:500

Excitation/Emission maxima
wavelengths:

588 nm / 604 nm

Applications

Tested Applications:

IF-P

Species Specificity:

human, mouse, rat

Positive Controls:

IF-P: mouse kidney tissue,

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 GDPD5 that gates the ability to GDPD5 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. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

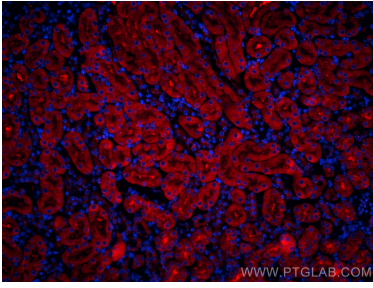
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using CoraLite®594 PRDX1 antibody (CL594-66820, Clone: 2B2A2) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).