

For Research Use Only

Peroxiredoxin 2 Recombinant monoclonal antibody

Catalog Number: 86599-1-RR



Basic Information

Catalog Number:

86599-1-RR

Size:

100ul, Concentration: 1000 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0835

GenBank Accession Number:

BC003022

GeneID (NCBI):

7001

UNIPROT ID:

P32119

Full Name:

peroxiredoxin 2

Calculated MW:

22 kDa

Observed MW:

22 kDa

Purification Method:

Protein A purification

CloneNo.:

251494D3

Recommended Dilutions:

WB: 1:5000-1:50000

IF/ICC: 1:300-1:1200

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : PC-12 cells, C2C12 cells, mouse brain tissue, rat brain tissue, rat spleen tissue, rat heart tissue

IF/ICC : HepG2 cells,

FC (Intra) : C2C12 cells,

Background Information

Peroxiredoxin 2 (PRDX2), also named as TSA, PRP, NKEFB and TDPX1, belongs to the ahpC/TSA family. It is known to act as an antioxidant enzyme whose main function is H₂O₂ reduction in cells. PRDX2 is involved in redox regulation of the cell. It reduces peroxides with reducing equivalents provided through the thioredoxin system. It may play an important role in eliminating peroxides generated during metabolism. PRDX2 might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H₂O₂. PRDX2 actions may be related to the expression of NFκB and IκB.(PMID:21248284)

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

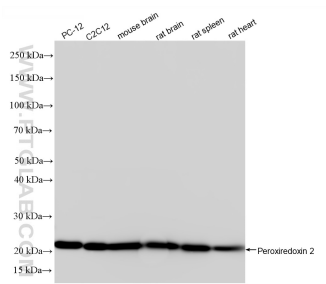
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

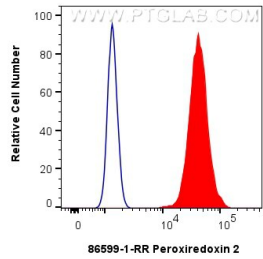
E: proteintech@ptglab.com
W: ptglab.com

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

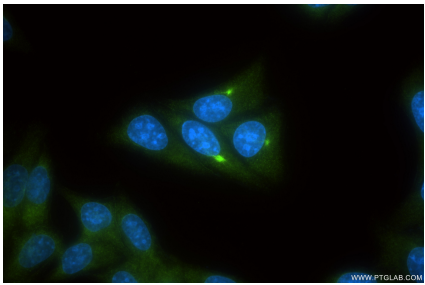
Selected Validation Data



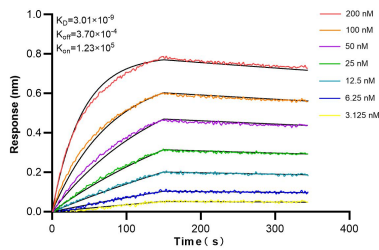
Various lysates were subjected to SDS PAGE followed by western blot with 86599-1-RR (Peroxiredoxin 2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1x10⁶ C2C12 cells were intracellularly stained with 0.25 ug Peroxiredoxin 2 Recombinant monoclonal antibody (86599-1-RR, Clone:251494D3) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using Peroxiredoxin 2 antibody (86599-1-RR, Clone: 251494D3) at dilution of 1:600 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 86599-1-RR against Human Peroxiredoxin 2 were performed. The affinity constant is 3.01 nM.