

For Research Use Only

peroxiredoxin 2 Polyclonal antibody

Catalog Number:10545-2-AP

Featured Product

47 Publications



Basic Information

Catalog Number:

10545-2-AP

Size:

150ul , Concentration: 550 ug/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:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:600-1:3000

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, RIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HepG2 cells, C2C12 cells, PC-12 cells

IP : HepG2 cells,

IHC : human liver tissue, human hepatocirrhosis tissue

IF/ICC : HepG2 cells, HeLa cells

Background Information

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 NFkB and IKB.(PMID:21248284)

Notable Publications

Author	Pubmed ID	Journal	Application
Tingyi Zhao	32892658	Free Radic Res	WB
Ling Fu	31411056	Antioxid Redox Signal	WB
Zhiwei Liao	34476937	ACS Nano	WB

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

*** 20ul sizes contain 0.1% BSA

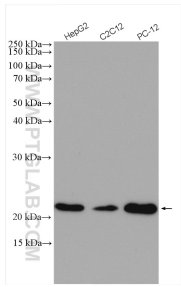
For technical support and original validation data for this product please contact:

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

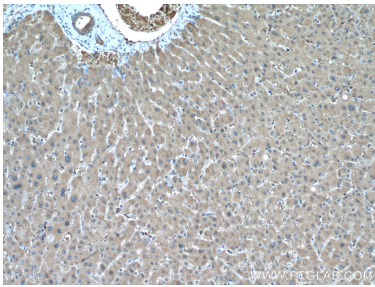
E: proteintech@ptglab.com
W: ptglab.com

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

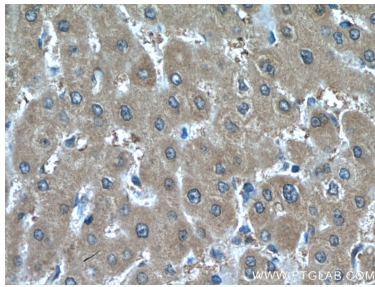
Selected Validation Data



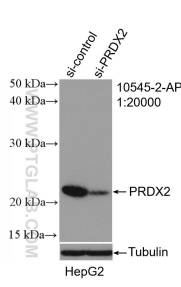
Various lysates were subjected to SDS PAGE followed by western blot with 10545-2-AP (peroxiredoxin 2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



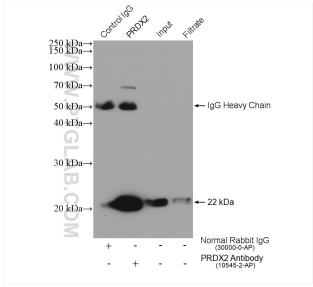
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 10545-2-AP (peroxiredoxin 2 antibody) at dilution of 1:600 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



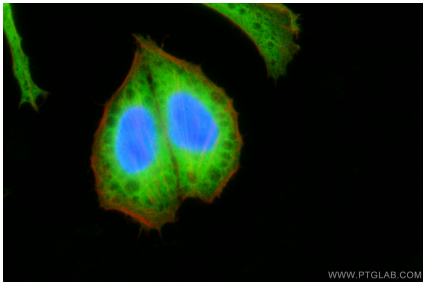
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 10545-2-AP (peroxiredoxin 2 antibody) at dilution of 1:600 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of peroxiredoxin 2 antibody (10545-2-AP; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-peroxiredoxin 2 transfected HepG2 cells.



IP result of anti-peroxiredoxin 2 (IP:10545-2-AP, 4ug; Detection:10545-2-AP 1:4000) with HepG2 cells lysate 960 ug.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using peroxiredoxin 2 antibody (10545-2-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).