

For Research Use Only

# peroxiredoxin 2 Polyclonal antibody, PBS Only

Catalog Number: 10545-2-PBS

Featured Product



## Basic Information

**Catalog Number:**

10545-2-PBS

**Size:**

100ug, Concentration: 1 mg/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

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, IP, Indirect ELISA

**Species Specificity:**

human, mouse, rat

## 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 H<sub>2</sub>O<sub>2</sub> 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 H<sub>2</sub>O<sub>2</sub>. PRDX2 actions may be related to the expression of NFKB and IKK.(PMID:21248284)

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS Only

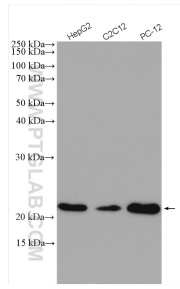
For technical support and original validation data for this product please contact:

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

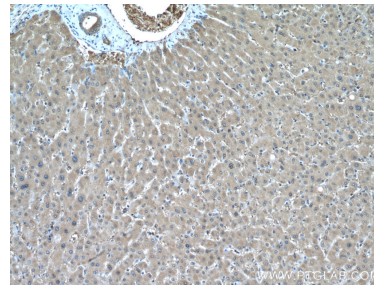
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

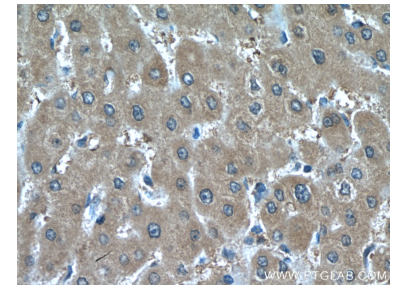
## Selected Validation Data



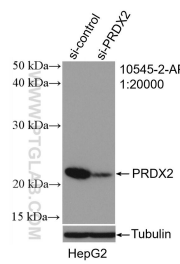
Various lysates were subjected to SDS PAGE followed by western blot with 10545-2-AP (peroxiredoxin 2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 10545-2-PBS in a different storage buffer formulation.



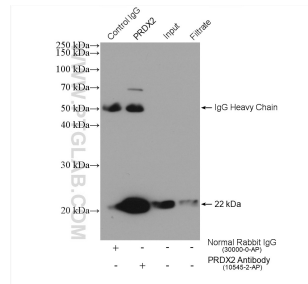
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 10545-2-AP (peroxiredoxin 2 antibody) at dilution of 1:600 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 10545-2-PBS in a different storage buffer formulation.



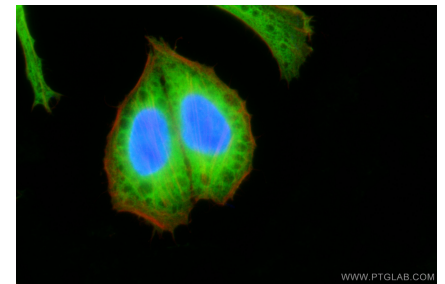
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 10545-2-AP (peroxiredoxin 2 antibody) at dilution of 1:600 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 10545-2-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 10545-2-PBS in a different storage buffer formulation.



IP result of anti-peroxiredoxin 2 (IP:10545-2-AP, 4ug; Detection:10545-2-AP 1:4000) with HepG2 cells lysate 960 ug. This data was developed using the same antibody clone with 10545-2-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 10545-2-PBS in a different storage buffer formulation.