

For Research Use Only

peroxiredoxin 2 Monoclonal antibody



Catalog Number: 60202-1-Ig

Featured Product

5 Publications

Basic Information

Catalog Number: 60202-1-Ig	GenBank Accession Number: BC003022	Purification Method: Protein G purification
Size: 150ul , Concentration: 2000 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 7001	CloneNo.: 3H6C4
Source: Mouse	Full Name: peroxiredoxin 2	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:20-1:200 IF 1:50-1:500
Isotype: IgG1	Calculated MW: 22 kDa	
Immunogen Catalog Number: AG0835	Observed MW: 22 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human

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 : HeLa cells, MCF-7 cells, human testis tissue, fetal human brain tissue, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, PC-12 cells, NIH/3T3 cells

IHC : human testis tissue, human brain tissue

IF : MCF-7 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
Silei Zhou	27602166	Oncol Lett	WB
Yanxia Jin	30454068	J Exp Clin Cancer Res	WB,IHC,IF
Yini Ma	31388312	Cancer Manag Res	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

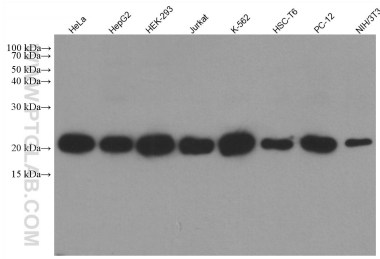
For technical support and original validation data for this product please contact:

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

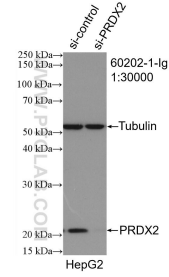
E: proteintech@ptglab.com
W: ptglab.com

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

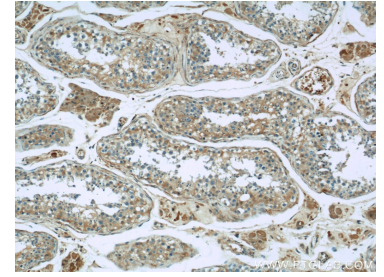
Selected Validation Data



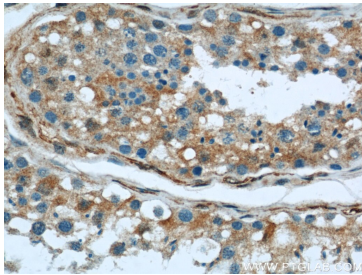
Various lysates were subjected to SDS PAGE followed by western blot with 60202-1-Ig (peroxiredoxin 2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



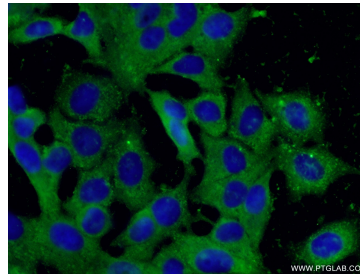
WB result of peroxiredoxin 2 antibody (60202-1-Ig; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-peroxiredoxin 2 transfected HepG2 cells.



Immunohistochemical analysis of paraffin-embedded human testis using 60202-1-Ig(peroxiredoxin 2 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human testis using 60202-1-Ig(peroxiredoxin 2 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using 60202-1-Ig(peroxiredoxin 2 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).