

For Research Use Only

PRDX4 Monoclonal antibody

Catalog Number: 60286-1-Ig

Featured Product

3 Publications



Basic Information

Catalog Number: 60286-1-Ig	GenBank Accession Number: BC007107	Purification Method: Protein A purification
Size: 150ul, Concentration: 1100 µg/ml by Nanodrop and 727 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 10549	CloneNo.: 5B6F1
Source: Mouse	UNIPROT ID: Q13162	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:20-1:200 IF 1:50-1:500
Isotype: IgG2b	Full Name: peroxiredoxin 4	
Immunogen Catalog Number: AG13401	Calculated MW: 31 kDa	
	Observed MW: 30 kDa	

Applications

Tested Applications:
IF, IHC, WB, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

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: LNCaP cells, NIH/3T3 cells, HeLa cells, HepG2 cells, K-562 cells, PC-12 cells, HEK-293 cells, Jurkat cells, HSC-T6 cells

IHC: human colon tissue, human pancreas cancer tissue, human prostate cancer tissue

IF: HepG2 cells,

Background Information

PRDX4 (Peroxiredoxin-4) is also named as AOE37-2, Prx-IV and belongs to the AhpC/TSA family. PRDX4 is associated with acrosome formation during rat spermatogenesis and has a protective role in the male reproductive tract, because the phenotype of mice lacking this isoform includes testicular atrophy and increased sperm DNA damage (PMID:20864641). It is initially synthesized as a membrane-binding 31-kDa protein and processed into a 27-kDa secretory form and is discarded with the residual bodies (PMID:19208552). PRDX4 is a pentamer of dimers (PMID:23025503).

Notable Publications

Author	Pubmed ID	Journal	Application
Wangjuan Dai	36334439	Biochem Biophys Res Commun	IF
Alexander Vdovin	36357400	Nat Commun	WB
Youyi Liu	38254641	Biomolecules	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

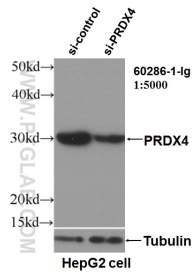
For technical support and original validation data for this product please contact:

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

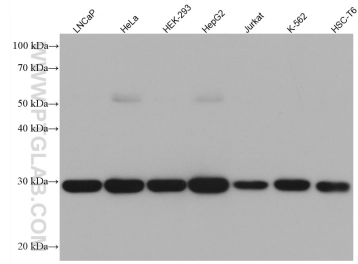
E: proteintech@ptglab.com
W: ptglab.com

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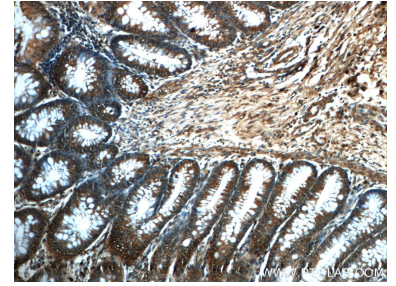
Selected Validation Data



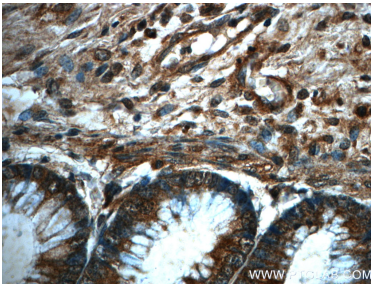
WB result of PRDX4 antibody (60286-1-Ig, 1:5000) with si-Control and si-PRDX4 transfected HepG2 cells.



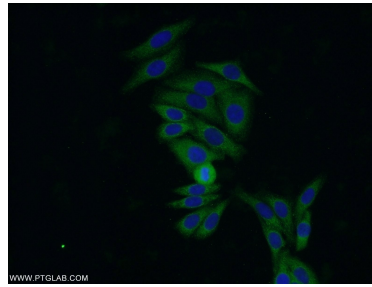
Various lysates were subjected to SDS PAGE followed by western blot with 60286-1-Ig (PRDX4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon slide using 60286-1-Ig (PRDX4 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon slide using 60286-1-Ig (PRDX4 Antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HepG2 cells using 60286-1-Ig (PRDX4 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG (H+L).