For Research Use Only

PRDX4 Monoclonal antibody

Catalog Number:60286-1-Ig Featured Product 5 Publications

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Basic Information

Catalog Number:
60286-1-Ig

Source:
Mouse

Isotype:
IgG2b

Immunogen Catalog Number:
AG13401

GenBank Accession Number:
BC007107

GeneID (NCBI):
10549

UNIPROT ID:
Q13162

Full Name:
peroxiredoxin 4

Calculated MW:
31 kDa

Observed MW:
30 kDa

Purification Method:
Protein A purification

CloneNo.:
5B6F1

Recommended Dilutions:
WB: 1:5000-1:50000
IHC: 1:20-1:200
IF/ICC: 1:400-1:1600

Applications

Tested Applications:
WB, IHC, IF/ICC, 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/ICC : 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
Yoko Hirata	41934679	Eur J Cell Biol	WB

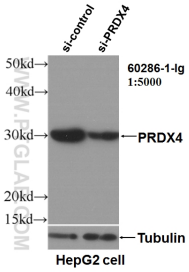
Storage

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

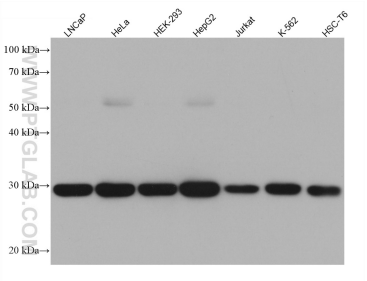
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

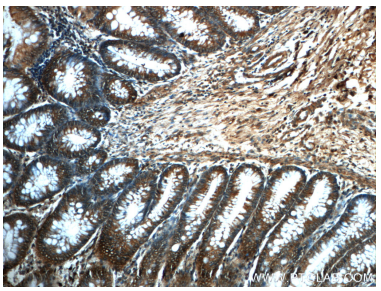
Selected Validation Data



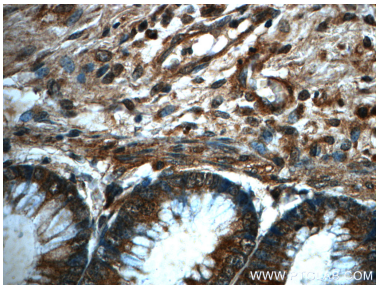
WB result of PRDX4 antibody (60286-1-Ig, 1:5000) with si-Control and si-PRDX4 transfected HepG2 cells.



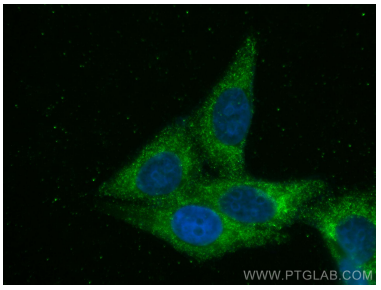
Various lysates were subjected to SDS PAGE followed by western blot with 60286-1-Ig (PRDX4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon slide using 60286-1-Ig (PRDX4 Antibody) at dilution of 1:50(unde10x 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 (-20°C Ethanol) fixed HepG2 cells using PRDX4 antibody (60286-1-Ig, Clone: 5B6F1) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).