

PRDX4

Polyclonal ANTIBODY

Catalog Number: 10703-1-AP

Featured Product

5 Publications

Basic Information

Catalog Number:
10703-1-AP

Size:
25 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG1177

GenBank Accession Number:
BC007107

GeneID (NCBI):
10549

Full Name:
peroxiredoxin 4

Calculated MW:
31 kDa

Observed MW:
30 kDa

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 µg for IP and 1:500-1:1000 for WB

IHC 1:20-1:200

IF 1:20-1:200

Applications

Tested Applications:

FC, IF, IHC, IP, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:
human,mouse,rat

Cited Species:
human, rat

Note: 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; Jurkat

IP : HepG2 cells;

IHC : 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 (PMD: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 (PMD:19208552). PRDX4 is a pentamer of dimers (PMD:23025503). This antibody is specific to PRDX4.

Notable Publications

Author	Pubmed ID	Journal	Application
Xiao-Jing Shi	27650197	Antioxid Redox Signal	WB
Bo Wei	29782637	Br J Pharmacol	WB
Guo-Yan Liu	28513872	J Cell Biochem	WB,IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

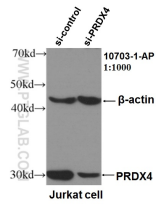
For technical support and original validation data for this product please contact:

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

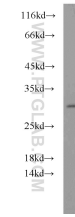
E: proteintech@ptglab.com
W: ptglab.com

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

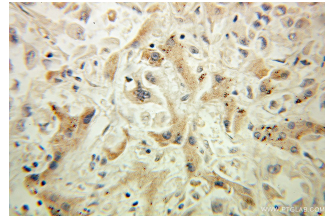
Selected Validation Data



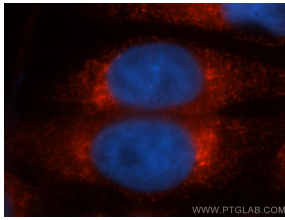
WB result of PRDX4 antibody (10703-1-AP 1:1000) with si-Control and si-PRDX4 transfected Jurkat cells.



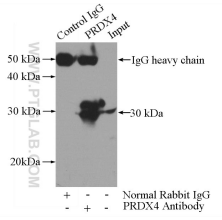
HepG2 cells were subjected to SDS PAGE followed by western blot with 10703-1-AP (PRDX4 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours



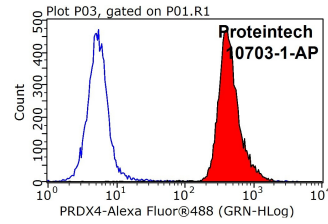
Immunohistochemical of paraffin-embedded human pancreas cancer using 10703-1-AP (PRDX4 antibody) at dilution of 1:100 (under 10x lens)



Immunofluorescent analysis of HepG2 cells, using PRDX4 antibody 10703-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



IP Result of anti-PRDX4 (IP: 10703-1-AP, 3ug; Detection: 10703-1-AP 1:500) with HepG2 cells lysate 4000ug.



1X10⁶ HepG2 cells were stained with 0.2ug PRDX4 antibody (10703-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.