

For Research Use Only

GPX4 Polyclonal antibody

Catalog Number: 30388-1-AP **25 Publications**



Basic Information

Catalog Number: 30388-1-AP	GenBank Accession Number: BC021567	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 550 µg/ml by Nanodrop;	GeneID (NCBI): 2879	Recommended Dilutions: WB 1:500-1:2000 IF 1:50-1:500
Source: Rabbit	UNIPROT ID: P36969	
Isotype: IgG	Full Name: glutathione peroxidase 4 (phospholipid hydroperoxidase)	
Immunogen Catalog Number: AG30650	Observed MW: 20-23 kDa	

Applications

Tested Applications: WB, IF, FC, ELISA	Positive Controls:
Cited Applications: WB, IF, FC, IHC	WB : HCT 116 cells, HL-60 cells, Jurkat cells, mouse brain tissue, rat brain tissue
Species Specificity: Human, Mouse, Rat	IF : rat testis tissue,
Cited Species: human, rat, mouse, pig	

Background Information

GPX4 (Phospholipid hydroperoxide glutathione peroxidase, mitochondrial) protects cells against membrane lipid peroxidation and cell death. Required for normal sperm development and male fertility. It has two isoforms about 20KDa and 22KDa, respectively. GPX4 is a monomer, but it has a tendency to form higher mass oligomers (PMID:17630701). It presents primarily in testis.

Notable Publications

Author	Pubmed ID	Journal	Application
Bo Wang	38454322	Mol Med	WB
Xia Xu	38460811	Life Sci	WB
Huan Wang	38432004	Biomaterials	WB

Storage

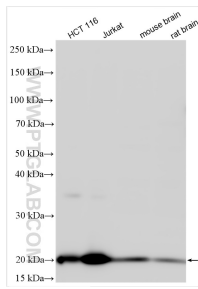
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

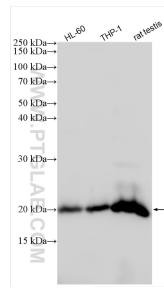
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

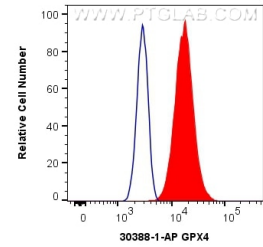
Selected Validation Data



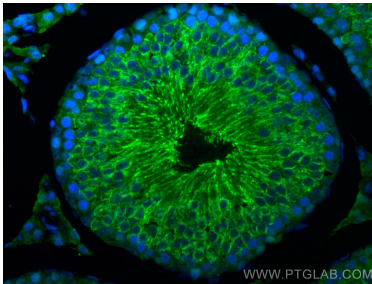
Various lysates were subjected to SDS PAGE followed by western blot with 30388-1-AP (GPX4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



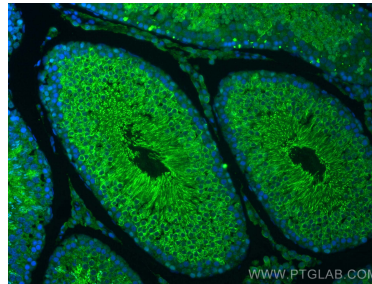
Various lysates were subjected to SDS PAGE followed by western blot with 30388-1-AP (GPX4 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



1×10^6 HeLa cells were intracellularly stained with 0.4 μ g Anti-Human GPX4 (30388-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 μ g Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat testis tissue using GPX4 antibody (30388-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat testis tissue using GPX4 antibody (30388-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).