

For Research Use Only

GPX4 Polyclonal antibody

Catalog Number: 14432-1-AP

139 Publications



Basic Information

Catalog Number:

14432-1-AP

Size:

150ul, Concentration: 800 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5809

GenBank Accession Number:

BC022071

GeneID (NCBI):

2879

UNIPROT ID:

P36969

Full Name:

glutathione peroxidase 4
(phospholipid hydroperoxidase)

Calculated MW:

22 kDa

Observed MW:

20-23 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:12000

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IF, ELISA

Cited Applications:

WB, IHC, IF, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, pig, chicken

Positive Controls:

WB : mouse testis tissue, rat testis tissue

IF/ICC : HeLa cells,

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
Zixin Min	30247797	J Cell Mol Med	IHC, WB
Jiayu Song	36193064	Oxid Med Cell Longev	WB, IHC
Shiao Tong	36156371	Transl Oncol	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

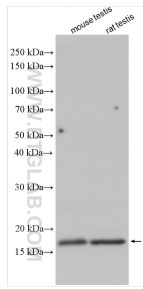
For technical support and original validation data for this product please contact:

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

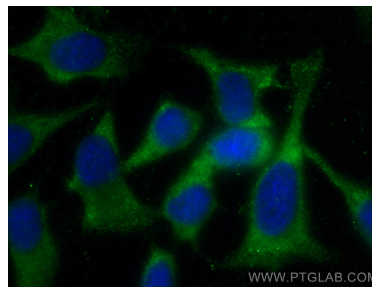
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 14432-1-AP (GPX4 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using GPX4 antibody (14432-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L).