

For Research Use Only

GPX5 Polyclonal antibody

Catalog Number: 18731-1-AP

12 Publications



Basic Information

Catalog Number:

18731-1-AP

Size:

150ul, Concentration: 800 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_001509

GeneID (NCBI):

2880

UNIPROT ID:

O75715

Full Name:

glutathione peroxidase 5 (epididymal androgen-related protein)

Calculated MW:

25 kDa

Observed MW:

22-28 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:200-1:1000

IHC 1:20-1:200

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse, pig, goat

Positive Controls:

WB: mouse testis tissue, PC-3 cells, human testis tissue, mouse liver tissue

IHC: human testis tissue,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

GPX5 belongs to the glutathione peroxidase family. GPX5 protects cells and enzymes from oxidative damage, by catalyzing the reduction of hydrogen peroxide, lipid peroxides and organic hydroperoxide, by glutathione. Catalytic the reaction: 2 glutathione + H₂O₂ = glutathione disulfide + 2 H₂O. GPX5 constitute a glutathione peroxidase-like protective system against peroxide damage in sperm membrane lipids. GPX5 has a calculated molecular mass of 25 kDa and apparent molecular mass of 22-28 kDa due to the cleavage of signal peptide and glycosylation.

Notable Publications

Author	Pubmed ID	Journal	Application
Lin Huang	27003159	Sci Rep	IF
Ilias Michos	34204554	Animals (Basel)	WB
I Vilagran	25678437	Andrology	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

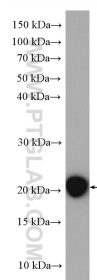
For technical support and original validation data for this product please contact:

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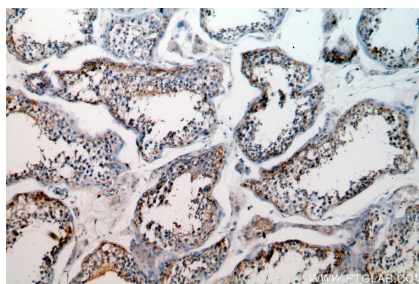
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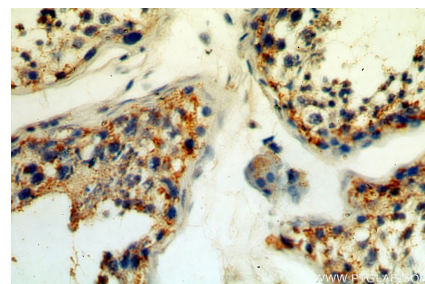
Selected Validation Data



mouse testis tissue were subjected to SDS PAGE followed by western blot with 18731-1-AP (GPX5 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human testis using 18731-1-AP (GPX5 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human testis using 18731-1-AP (GPX5 antibody) at dilution of 1:50 (under 40x lens).