For Research Use Only

GPX4 Monoclonal antibody

Catalog Number:67763-1-lg Featured Product 612 Publications

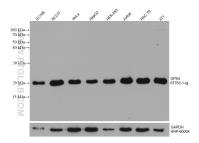


| Basic Information | Catalog Number: 67763-1-lg | GenBank Accession Number: BC021567 | | Purification Method: Protein A purification | |
|--|---|--|---|--|--|
| | Size: | GenelD (NCBI): | | CloneNo.: | |
| | 150ul , Concentration: 1000 ug/ml by | 2879 UNIPROT ID: P36969 Full Name: glutathione peroxidase 4 (phospholipid hydroperoxidase) Observed MW: 20-23 kDa | | 3F5G5 | |
| | Nanodrop; | | | Recommended Dilutions: WB: 1:1000-1:4000 IHC: 1:1000-1:4000 IF-P: 1:200-1:800 IF/ICC: 1:400-1:1600 | |
| | Source: Mouse | | | | |
| | Isotype: | | | | |
| | IgG2b | | | | |
| | Immunogen Catalog Number: AG30650 | | | | |
| Applications | Tested Applications: | | | ntrols: | |
| | Cited Applications: tissue, rabb | | | NB : EC109 cells, HEK-293 cells, NCCIT cells, pig brain | |
| | | | oit testis tissue, Hela cells, HepG2 cells, s, HSC-T6 cells, 4T1 cells, ATDC-5 cells, s, CHO cells, Chicken brain tissue, Zebrafish | | |
| | species specificity. | | | | |
| | hamster, dog brain t Cited Species: human, mouse, rat, pig, chicken, bovine, sheep, goat, IHC : h | | | , human platelet tissue, rat brain tissue, mouse tissue, rabbit brain tissue, rat testis tisssue, | |
| | | | mouse testi | | |
| | | | IHC : humar testis tissue | : human liver cancer tissue, mouse testis tissue, r is tissue | |
| | Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | | IF-P : mouse | IF-P: mouse testis tissue, | |
| | | | IF/ICC : HeL | IF/ICC : HeLa cells, | |
| | 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 isforms 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. | | | | |
| Background Information | peroxidation and cell death. Required 20KDa and 22KDa, respectively. GPX4 | for normal sperm of is a monomer,but i | development and | male fertility. It has two isforms about | |
| | peroxidation and cell death. Requirec 20KDa and 22KDa, respectively. GPX4 (PMID:17630701). It presents primaril | d for normal sperm c is a monomer,but i y in testis. | development and | male fertility. It has two isforms about | |
| | peroxidation and cell death. Required 20KDa and 22KDa, respectively. GPX4 (PMID:17630701). It presents primaril Author Pub | d for normal sperm of ; is a monomer,but i ly in testis. omed ID Jo | development and t has a tendency | male fertility.It has two isforms about to form higher mass oligomers | |
| Background Information Notable Publications | peroxidation and cell death. Requirec 20KDa and 22KDa, respectively. GPX4 (PMID:17630701). It presents primaril Author Pub Wenyuan Li 345 | d for normal sperm c is a monomer,but i ly in testis. Demed ID Jou 188431 Ce | development and t has a tendency urnal | I male fertility. It has two isforms about to form higher mass oligomers Application | |
| | peroxidation and cell death. Required 20KDa and 22KDa, respectively. GPX4 (PMID:17630701). It presents primaril Author Pub Wenyuan Li 345 Yue Li 362 | d for normal sperm of is a monomer,but i ly in testis. med ID Jon i88431 Ce 134847 Mo | development and t has a tendency urnal ell Death Discov | male fertility.It has two isforms about to form higher mass oligomers Application WB,IF | |
| | peroxidation and cell death. Required 20KDa and 22KDa, respectively. GPX4 (PMID:17630701). It presents primaril Author Pub Wenyuan Li 345 Yue Li 362 | d for normal sperm c is a monomer,but i ly in testis. med ID Jou 388431 Ce 34847 Mc 153926 As er shipment. % glycerol, pH7.3 | development and t has a tendency urnal ell Death Discov plecules | male fertility.It has two isforms about to form higher mass oligomers Application WB,IF WB | |

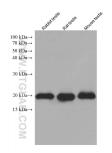
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

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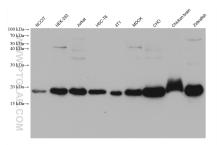
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67763-1-1g (GPX4 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



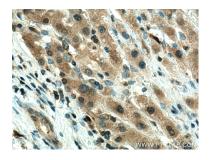
Various lysates were subjected to SDS PAGE followed by western blot with 67763-1-lg (GPX4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



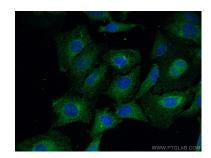
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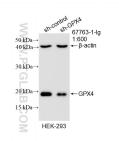
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 67763-1-1g (GPX4 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



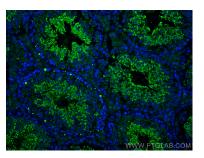
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 67763-1-1g (GPX4 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using GPX4 antibody (67763-1-Ig, Clone: 3F5G5) at dilution of 1:800 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



WB result of GPX4 antibody (67763-1-lg: 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-GPX4 transfected HEK-293 cells.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse testis tissue using GPX4 antibody (67763-1-1g, Clone: 3F5G5) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).