



GPX4 Rabbit mAb

Catalog No	YP-rAb-17642
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	GPX4
Protein Name	GPX4
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	GPX4;Phospholipid hydroperoxide glutathione peroxidase, mitochondrial ; PHGPx ; Glutathione peroxidase 4 ; GPx-4 ; GSHPx-4
Observed Band	22kD
Calculated Molecular Weight	22kD
Cell Pathway	Cytoplasm
Tissue Specificity	Present primarily in testis. Expressed in platelets (at protein level) (PubMed:11115402).
Function	Catalytic activity:2 glutathione + a lipid hydroperoxide = glutathione disulfide + lipid + 2 H(2)O.,Disease:Defects in GPX4 may be a cause of infertility.,Function:Protects cells against membrane lipid peroxidation and cell death. Required for normal sperm development and male fertility. Could play a major role in protecting mammals from the toxicity of ingested lipid hydroperoxides. Essential for embryonic development. Protects from radiation and oxidative damage.,similarity:Belongs to the glutathione peroxidase family.,subunit:Monomer. Has a tendency to form higher mass oligomers.,tissue specificity:Present primarily in testis.,
Background	The protein encoded by this gene belongs to the glutathione peroxidase family, members of which catalyze the reduction of hydrogen peroxide, organic





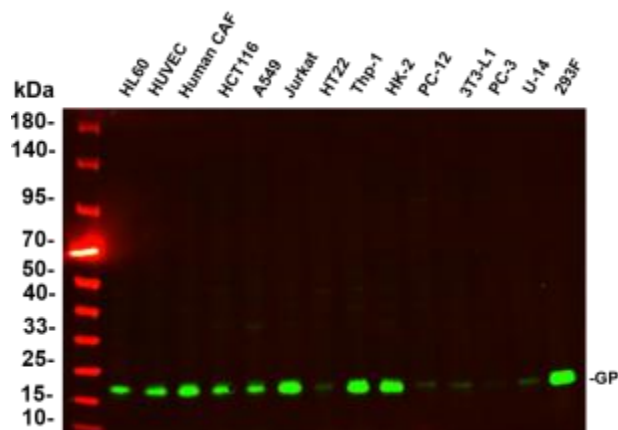
hydroperoxides and lipid hydroperoxides, and thereby protect cells against oxidative damage. Several isozymes of this gene family exist in vertebrates, which vary in cellular location and substrate specificity. This isozyme has a high preference for lipid hydroperoxides and protects cells against membrane lipid peroxidation and cell death. It is also required for normal sperm development; thus, it has been identified as a 'moonlighting' protein because of its ability to serve dual functions as a peroxidase, as well as a structural protein in mature spermatozoa. Mutations in this gene are associated with Sedaghatian type of spondylometaphyseal dysplasia (SMDS). This isozyme is also a selenoprotein, containing the rare amino acid selenocysteine (Sec) at its active site. Sec is encoded by the UGA codon, which normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, designated the Sec insertion sequence (SECIS) element, that is necessary for the recognition of UGA as a Sec codon, rather than as a stop signal. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Oct 2016],

matters needing attention

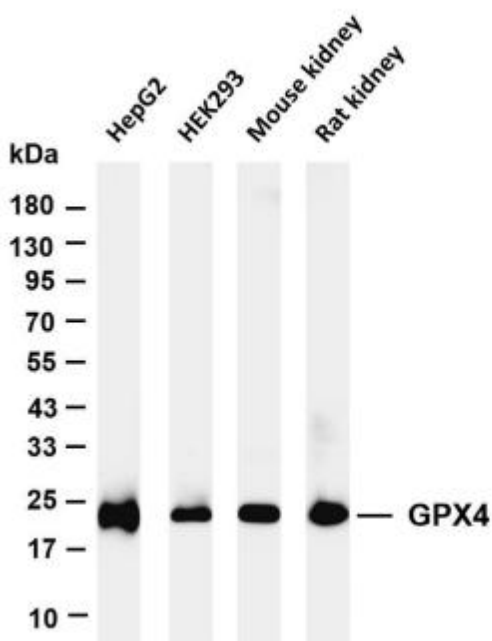
Avoid repeated freezing and thawing!

Usage suggestions

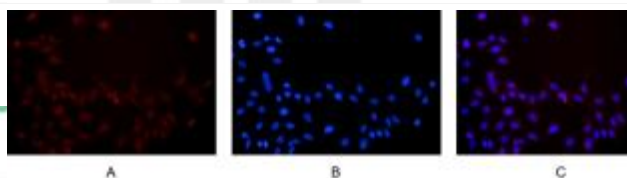
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night with a 1:5000 dilution. The Dylight 800-conjugated Goat anti-Rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Glutathione Peroxidase 4 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HepG2 Lane 2: HEK293 Lane 3: Mouse kidney Lane 4: Rat kidney Predicted band size: 22kDa Observed band size: 22kDa



Immunofluorescence analysis of HEK293. Picture A: Glutathione Peroxidase 4 antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B

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检测服务:

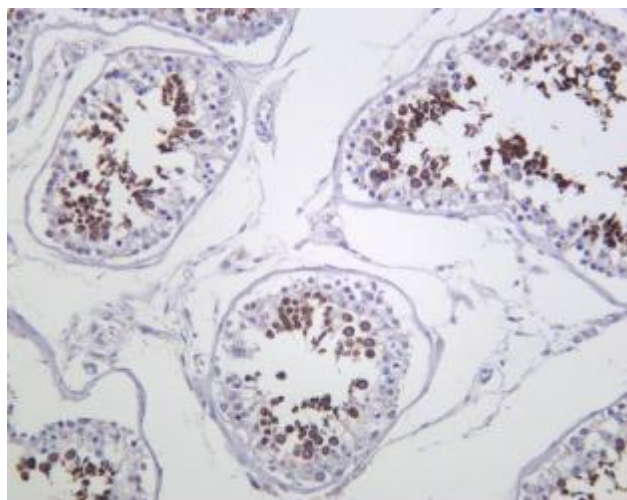
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Human testis was stained with anti-GPX4 Rabbit antibody

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