

GPX4 (R635P) Rabbit mAb

CatalogNo: AR0001 Recombinant FSS™

•Main information

Target	GPX4	IHC 1:200-1:1000
Reactivity	Human,Mouse,Rat	WB 1:2000-1:10000
Applications	WB,IHC,IF,ELISA	IF 1:200-1:1000
MW (kDa)	22kD (Calculated) 22kD (Observed)	ELISA 1:5000-1:20000
Host Species	Rabbit	Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0 (Cat#RH0011)
Isotype	IgG,Kappa	

•Recommended Dilutions

Target	IHC 1:200-1:1000
Reactivity	WB 1:2000-1:10000
Applications	IF 1:200-1:1000
MW (kDa)	ELISA 1:5000-1:20000
Host Species	Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0 (Cat#RH0011)
Isotype	

•Detailed information

Specificity	Endogenous
Storage	-15°C to -25°C/1 year(Do not lower than -25°C, Ship by ice bag)
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Purification	Protein A
Clonality	Monoclonal
Clone Number	R635P

•Target Information

Gene name GPX4

Protein Name GPX4

Organism

Gene ID

UniProt ID

Human

[2879](#);

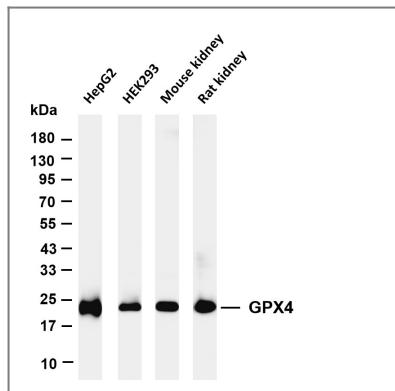
[P36969](#);

Cellular Localization Cytoplasm

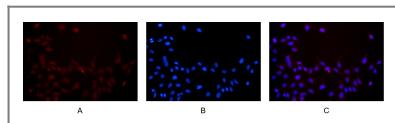
Tissue specificity Present primarily in testis. Expressed in platelets (at protein level) (PubMed:11115402).

Function Catalytic activity:2 glutathione + a lipid hydroperoxide = glutathione disulfide + lipid + 2 H₂O.,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.,

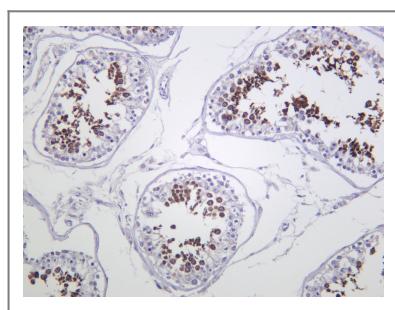
•Validation Data



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



Human testis was stained with anti-GPX4 Rabbit antibody

•Contact information

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**GPX4 (R635P)
Rabbit mAb**

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