

# GPX4 (R635P) Rabbit mAb

CatalogNo: AR0001 **Recombinant FSS™**

## •Main information

<b>Target</b>	GPX4
<b>Reactivity</b>	Human,Mouse,Rat
<b>Applications</b>	WB,IHC,IF,ELISA
<b>MW (kDa)</b>	22kD (Calculated) 22kD (Observed)
<b>Host Species</b>	Rabbit
<b>Isotype</b>	IgG,Kappa

## •Recommended Dilutions

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 (Cat#RH0011)

## •Detailed information

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

## •Target Information

<b>Gene name</b>	GPX4
<b>Protein Name</b>	GPX4

### Organism

### Gene ID

### UniProt ID

Human

[2879](#);

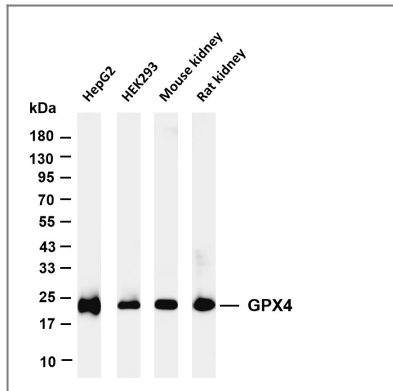
[P36969](#);

<b>Cellular Localization</b>	Cytoplasm
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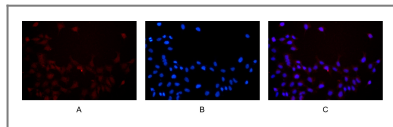
**Tissue specificity** Present primarily in testis. Expressed in platelets (at protein level) (PubMed:11115402).

**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.,

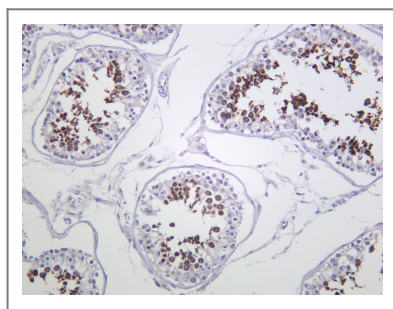
## •Validation Data



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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Please scan the QR code to access additional product information:  
**GPX4 (R635P)**  
**Rabbit mAb**

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