

# 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

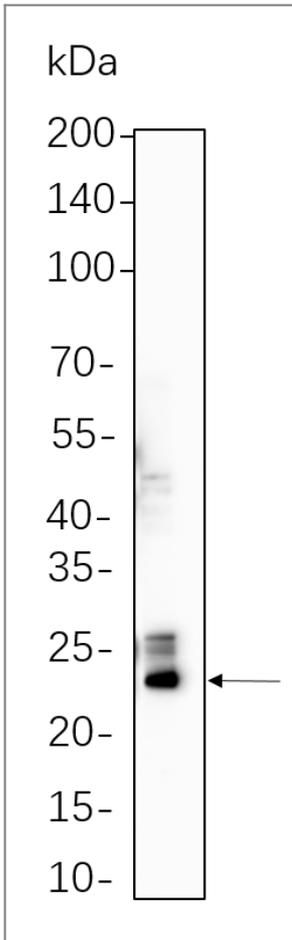
Organism	Gene ID	UniProt ID
Human	<a href="#">2879;</a>	<a href="#">P36969;</a>

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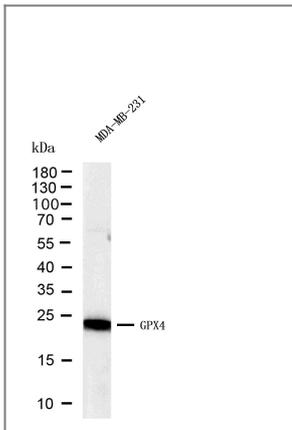
**Tissue specificity** Present primarily in testis. Expressed in platelets (at protein level) (PubMed:11115402).

**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.,

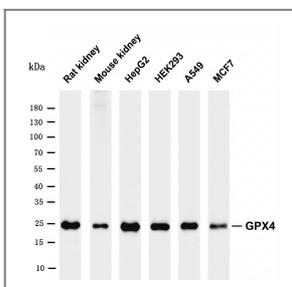
## •Validation Data



Western Blot analysis was performed using HepG2 cell lysates , and proteins were separated by 4-20% SDS-PAGE.



Western blot analysis was performed using MDA-MB-231 cell lysates; proteins were separated by 4-20% SDS-PAGE, with the primary antibody applied at a dilution of 1:5000.



Western blot analysis was performed on lysates prepared from Rat kidney, Mouse kidney, and human cell lines including HepG2, HEK293, A549, and MCF7. Proteins were resolved by 4-20% gradient SDS-PAGE, and the expression of GPX4 was subsequently detected.

## •Contact information

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product information:  
**GPX4 (R635P)**  
**Rabbit mAb**

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