

# GPX4 Rabbit mAb

Catalog No: #49731



Package Size: #49731-1 50ul #49731-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)

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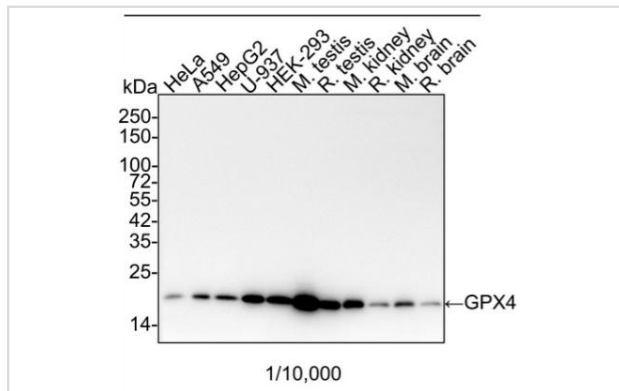
## Description

Product Name	GPX4 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Purification	ProA affinity purified
Applications	WB;IHC;IF
Species Reactivity	Human;Mouse;Rat
Immunogen Description	Synthetic peptide within Human GPX4
Conjugates	Unconjugated
Other Names	Glutathione peroxidase 4 antibody GPX 4 antibody GPX-4 antibody GPX4 antibody GPX4_HUMAN antibody GSHPx-4 antibody MCSP antibody mitochondrial antibody PHGPx antibody Phospholipid hydroperoxidase antibody Phospholipid hydroperoxide glutathione peroxidase antibody Phospholipid hydroperoxide glutathione peroxidase mitochondrial antibody snGPx antibody snPHGPx antibody Sperm nucleus glutathione peroxidase antibody
Accession No.	Swiss-Prot#:P36969
Calculated MW	22 kDa Clone number: JU11-31
Concentration	1ug/ul
Formulation	1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

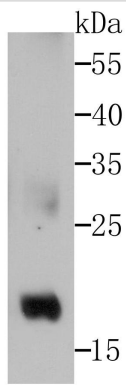
## Application Details

WB 1:10000IHC-P 1:1000-1:5000 IF 1:50-1:200

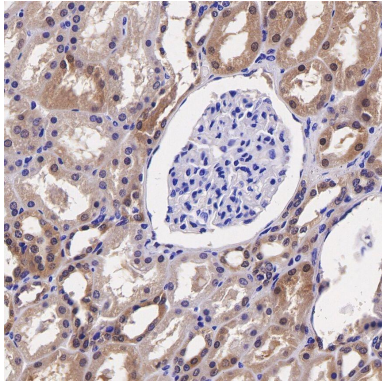
## Images



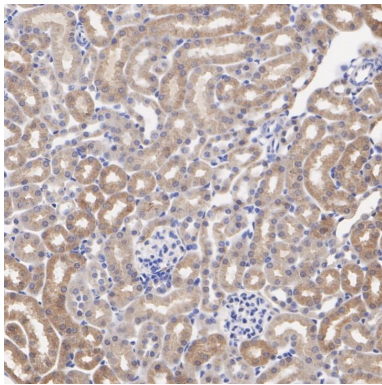
Western blot analysis of GPX4 on different lysates with GPX4 antibody at 1/10,000 dilution Lane 1: HeLa cell lysate (20 µg/Lane) Lane 2: A549 cell lysate (20 µg/Lane) Lane 3: HepG2 cell lysate (20 µg/Lane) Lane 4: U-937 cell lysate (20 µg/Lane) Lane 5: HEK-293 cell lysate (20 µg/Lane) Lane 6: M. testis (20 µg/Lane) Lane 7: R. testis (20 µg/Lane) Lane 8: M. kidney (20 µg/Lane) Lane 9: R. kidney (20 µg/Lane) Lane 10: M. brain (20 µg/Lane) Lane 11: R. brain (20 µg/Lane) Observed band size: 20 kDa Exposure time: 2 minutes; 4-20% SDS-PAGE gel.



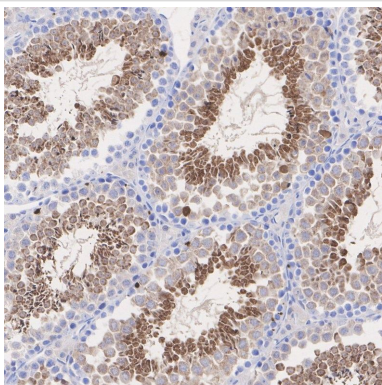
Western blot analysis of GPX4 on zebrafish tissue lysates with GPX4 antibody at 1/500 dilution. Lysates/proteins at 10 µg/Lane. Predicted band size: 22 kDa Observed band size: 17 kDa Exposure time: 2 minutes; 12% SDS-PAGE gel.



Immunohistochemical analysis of paraffin-embedded human kidney tissue with GPX4 antibody at 1/1,000 dilution.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue with GPX4 antibody at 1/1,000 dilution.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue with GPX4 antibody at 1/5,000 dilution.

## Background

Glutathione peroxidase (GPx) enzymes are generally selenium-containing tetrameric glycoproteins that help prevent lipid peroxidation of cell membranes. GPx enzymes reduce lipid hydroperoxides to alcohols, and reduce free hydrogen peroxide to water. GPx members are among the few proteins known in higher vertebrates to contain selenocysteine, which occurs at the active site of glutathione peroxidase and is coded by the nonsense (stop) codon TGA. There are eight GPx homologs (GPx-1-8). GPx-1, Gpx-2 and Gpx-3 exist as homotetramers. Gpx-4 has a high tendency to form high molecular weight oligomers.

