

GPX4 Rabbit mAb

Catalog No: #49731

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



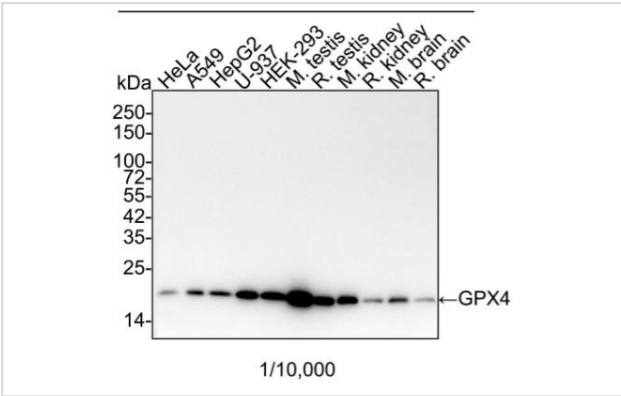
Signalway Antibody

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

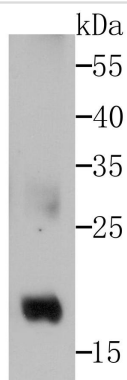
Description	
Product Name	GPX4 Rabbit mAb
Clonality	Monoclonal
Clone No.	JU11-31
Purification	ProA affinity purified
Applications	WB,IHC
Species Reactivity	Hu, Ms, Rt, Zebrafish
Immunogen Description	Synthetic peptide within Human GPX4
Conjugates	Unconjugated
Other Names	Glutathione peroxidase 4 antibody 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	1:10000;
IHC-P	1:1000-1:5000

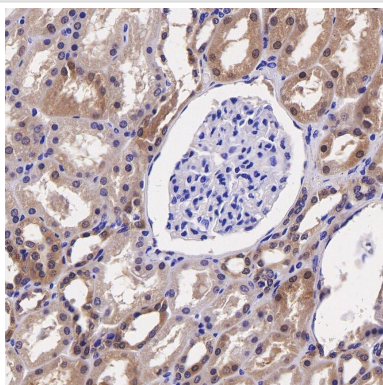
Images



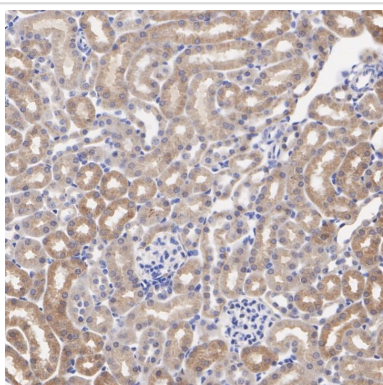
Western blot analysis of GPX4 on different lysates with GPX4 antibody at 1/10,000 dilution Lane 1: HeLa cell lysate (20 µg/Lane) Lane 2: A549 cell lysate (20 µg/Lane) Lane 3: HepG2 cell lysate (20 µg/Lane) Lane 4: U-937 cell lysate (20 µg/Lane) Lane 5: HEK-293 cell lysate (20 µg/Lane) Lane 6: Mouse testis tissue lysate (20 µg/Lane) Lane 7: Rat testis tissue lysate (20 µg/Lane) Lane 8: Mouse kidney tissue lysate (20 µg/Lane) Lane 9: Rat kidney tissue lysate (20 µg/Lane) Lane 10: Mouse brain tissue lysate (20 µg/Lane) Lane 11: Rat brain tissue lysate (20 µg/Lane) Predicted band size: 22 kDa Observed band size: 20 kDa Exposure time: 2 minutes; 4-20% SDS-PAGE gel.



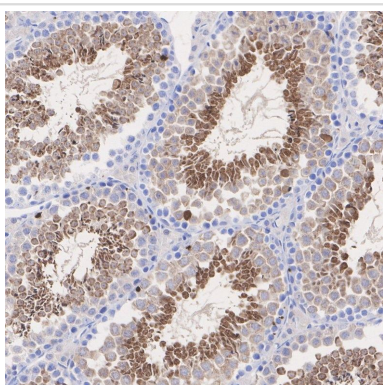
Western blot analysis of GPX4 on zebrafish tissue lysates with GPX4 antibody at 1/500 dilution. Lysates/proteins at 10 µg/Lane. Predicted band size: 22 kDa Observed band size: 17 kDa Exposure time: 2 minutes; 12% SDS-PAGE gel.



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.

Published Papers

el at., Linoleic Acid β -Glucosamine Hybrid for Endogenous Iron-Activated Ferroptosis Therapy in High-Grade Serous Ovarian Cancer. In Mol Pharm on 2022 Sep 5 by Ying Chen, Xiaoming Liao, et al..PMID:35939328, , (2022)

[PMID:35939328](#)

Yuwen Liu;Jiping Liu;Naping Hu;Zhengrong Li;Anqi Liu;Ruyue Luo;Siyu Du;Dongyan Guo;Jiankang Li;Jialin Duan el at., Classical prescription Daqinjiao decoction inhibit cerebral ischemia/reperfusion induced necroptosis and ferroptosis through multiple mechanisms., , (2025)

[PMID:39736347](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.