

Product Datasheet

Glutathione Peroxidase 4/GPX4 Antibody (JU11-31) NBP2-75511

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-75511

Glutathione Peroxidase 4/GPX4 Antibody (JU11-31)

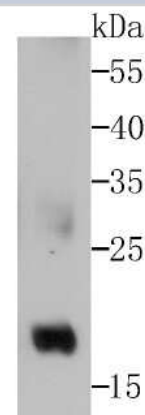
Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	JU11-31
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	TBS (pH7.4), 0.05% BSA, 40% Glycerol
Target Molecular Weight	22 kDa

Product Description	
Description	Novus Biologicals Rabbit Glutathione Peroxidase 4/GPX4 Antibody (JU11-31) (NBP2-75511) is a recombinant monoclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Glutathione Peroxidase 4/GPX4 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	2879
Gene Symbol	GPX4
Species	Human, Mouse, Rat, Zebrafish
Immunogen	Synthetic peptide within Human Glutathione Peroxidase 4/GPX4 aa 23-72 / 197. (SwissProt: P36969 Human; SwissProt: O70325 Mouse; SwissProt: P36970 Rat)

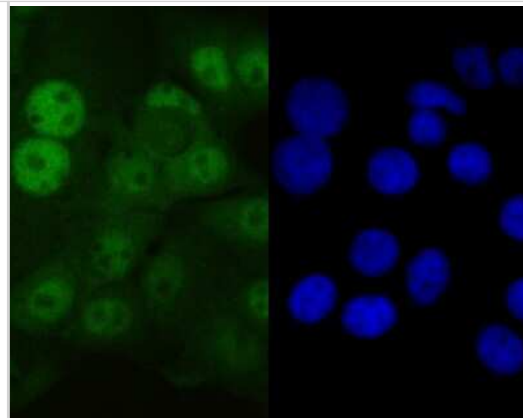
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:10,000, Immunohistochemistry 1:200-1:1,000, Immunocytochemistry/ Immunofluorescence 1:50-1:200, Immunohistochemistry-Paraffin 1:200-1:1,000

Images

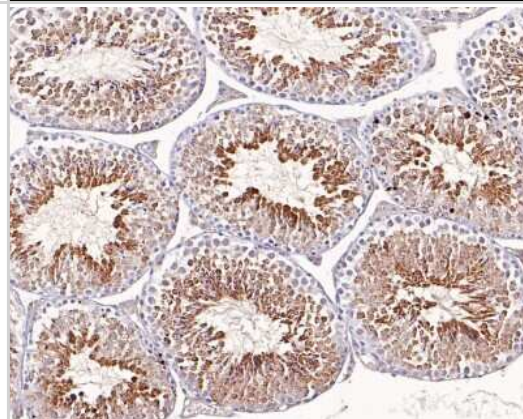
Western Blot: Glutathione Peroxidase 4/GPX4 Antibody (JU11-31) [NBP2-75511] - Analysis of GPX4 on Zebrafish tissue lysates using anti-GPX4 antibody at 1/500 dilution.



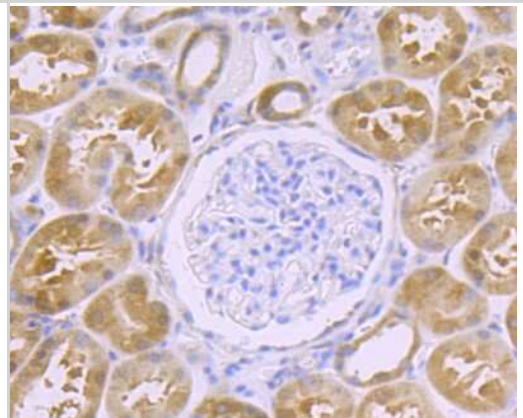
Immunocytochemistry/Immunofluorescence: Glutathione Peroxidase 4/GPX4 Antibody (JU11-31) [NBP2-75511] - Analysis of MCF-7 cells labeling GPX4 with Rabbit anti-Glutathione Peroxidase/GPX4 antibody (permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat serum for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-GPX4 antibody. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.



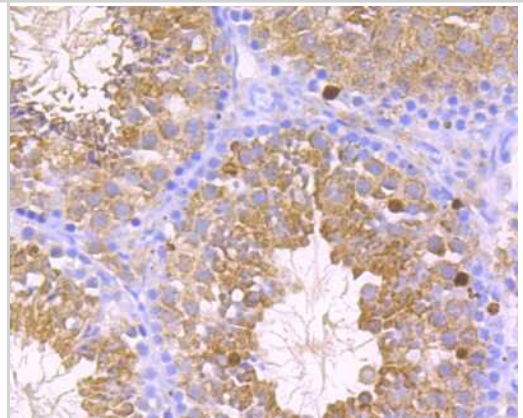
Immunohistochemistry-Paraffin: Glutathione Peroxidase 4/GPX4 Antibody (JU11-31) [NBP2-75511] - Analysis of paraffin-embedded mouse testis tissue with Rabbit anti-Glutathione Peroxidase 4/GPX4 antibody washed with ddH₂O and PBS, and then probed with the primary antibody at 1/500 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



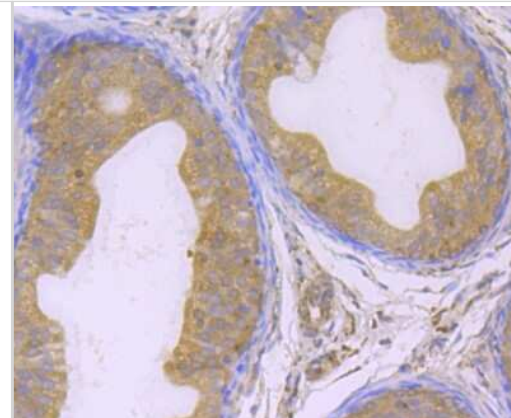
Immunohistochemistry-Paraffin: Glutathione Peroxidase 4/GPX4 Antibody (JU11-31) [NBP2-75511] - Analysis of paraffin-embedded human kidney tissue using anti-GPX4 antibody. Counter stained with hematoxylin.



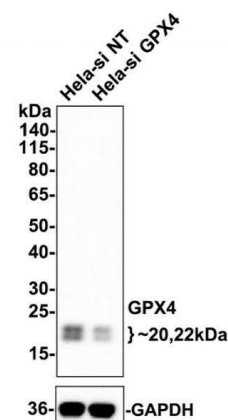
Immunohistochemistry-Paraffin: Glutathione Peroxidase 4/GPX4 Antibody (JU11-31) [NBP2-75511] - Analysis of paraffin-embedded mouse testis tissue using anti-GPX4 antibody. Counter stained with hematoxylin.



Immunohistochemistry-Paraffin: Glutathione Peroxidase 4/GPX4 Antibody (JU11-31) [NBP2-75511] - Analysis of paraffin-embedded rat epididymis tissue using anti-GPX4 antibody. Counter stained with hematoxylin.



Western Blot: Glutathione Peroxidase 4/GPX4 Antibody (JU11-31) [NBP2-75511] - analysis of GPX4 on different lysates with Rabbit anti-GPX4 antibody at 1/500 dilution. Lane 1: Hela-si NT cell lysate Lane 2: Hela-si GPX4 cell lysate Lysates/proteins at 10 ug/Lane. Predicted band size: 22 kDa Observed band size: 20,22 kDa Exposure time: 1 minutes 40 seconds; 4-20% SDS-PAGE gel. was shown to specifically react with GPX4 in Hela-si NT cells. Weakened band was observed when Hela-si GPX4 sample was tested. Hela-si NT and Hela-si GPX4 samples were subjected to SDS-PAGE. Proteins were transferred to a PVDF membrane and blocked with 5% NFD in TBST for 1 hour at room temperature. The primary antibody (1/500) and Loading control antibody (Rabbit anti-GAPDH , 1/10,000) were used in 5% BSA at room temperature for 2 hours. Goat Anti-rabbit IgG-HRP Secondary Antibody at 1:300,000 dilution was used for 1 hour at room temperature.



Publications

Peng R, Liu X, Wang C et al. Iron overload enhances TBI-induced cardiac dysfunction by promoting ferroptosis and cardiac inflammation Biochemical and biophysical research communications 2023-11-19 [PMID: 37801989]

Jan C. Lumibao, Payton L. Haak, Vladimir L. Kolossov, Jee-Wei Emily Chen, Jeremy Stutchman, Alejandra Ruiz, Mayandi Sivaguru, Jann N. Sarkaria, Brendan A.C. Harley, Andrew J. Steelman, H. Rex Gaskins CHCHD2 mediates glioblastoma cell proliferation, mitochondrial metabolism, hypoxia-induced invasion and therapeutic resistance International Journal of Oncology 2023-11-01 [PMID: 37654190]

Liu X, Yan C, Chang C et al. FOXA2 Suppression by TRIM36 Exerts Anti-Tumor Role in Colorectal Cancer Via Inducing NRF2/GPX4-Regulated Ferroptosis Advanced science (Weinheim, Baden-Wurttemberg, Germany) 2023-10-24 [PMID: 37875418]

Details:

1:1000 ICC/IF dilution

Piotrowska K, Zgutka K, Tomasiak P et al. Every-other day (EOD) feeding regime decreases oxidative stress and inflammatory cascade in mouse liver: The immunohistochemical study Tissue & cell 2023-10-06 [PMID: 37812950] (Immunohistochemistry, Mouse)

Xiong K, Wang Z, Hounye AH et al. Development and validation of ferroptosis-related lncRNA signature and immune-related gene signature for predicting the prognosis of cutaneous melanoma patients Apoptosis : an international journal on programmed cell death 2023-03-24 [PMID: 36964478]

Ma Z, Fan Y, Peng Y et al. miR-6315 silencing protects against spinal cord injury through the Smo and anti-ferroptosis pathway Bioscience reports 2023-04-26 [PMID: 36946310] (WB, Rat)

Tang W, Dong M, Teng F et al. Environmental Allergens House Dust Mites-induced Asthma Causes Ferroptosis in the Lungs Research Square 2021-02-24 [PMID: 34765024] (WB, Mouse)

Kim S, Kang SW, Joo J et al. Characterization of ferroptosis in kidney tubular cell death under diabetic conditions Cell death & disease 2021-02-08 [PMID: 33558472] (IF/IHC, WB)

Lumibao JC CHCHD2 and the tumor microenvironment in glioblastoma Thesis (WB, Human)





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Products Related to NBP2-75511

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-56139PEP	Glutathione Peroxidase 4/GPX4 Recombinant Protein Antigen

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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