

# 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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### Publications: 9

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

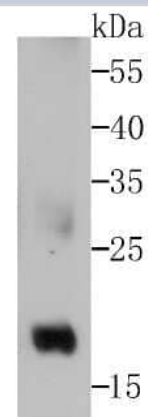
<b>Product Information</b>	
<b>Unit Size</b>	100 ul
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	JU11-31
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>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

<b>Product Description</b>	
<b>Description</b>	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.
<b>Host</b>	Rabbit
<b>Gene ID</b>	2879
<b>Gene Symbol</b>	GPX4
<b>Species</b>	Human, Mouse, Rat, Zebrafish
<b>Immunogen</b>	Synthetic peptide within Human Glutathione Peroxidase 4/GPX4 aa 23-72 / 197. (SwissProt: P36969 Human; SwissProt: O70325 Mouse; SwissProt: P36970 Rat)

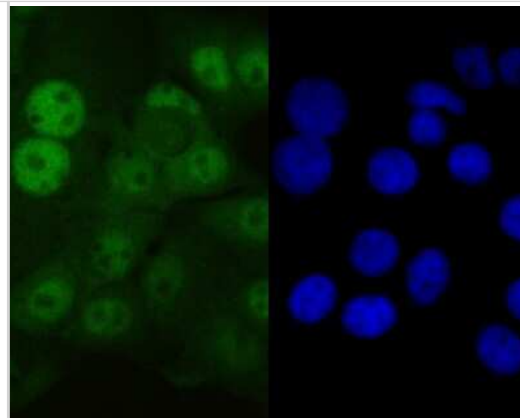
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:10,000, Immunohistochemistry 1:200-1:1,000, Immunocytochemistry/ Immunofluorescence 1:50-1:200,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

**Images**

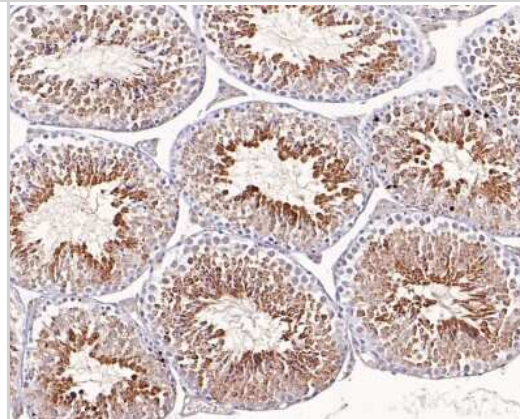
Western Blot: Glutathione Peroxidase 4/GPX4 Antibody (JU11-31) [NBP2-75511] - Analysis of GPX4 on Zebrafish tissue lysates using anti-GPX4 antibody at 1/500 dilution.



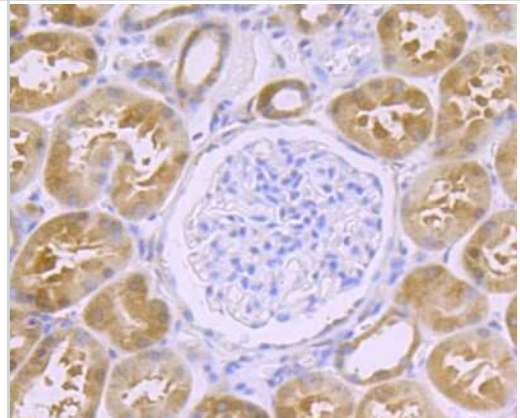
**Immunocytochemistry/Immunofluorescence: Glutathione Peroxidase 4/GPX4 Antibody (JU11-31) [NBP2-75511]** - Analysis of MCF-7 cells labeling GPX4 with Rabbit anti-Glutathione Peroxidase/GPX4 antibody (permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat 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.



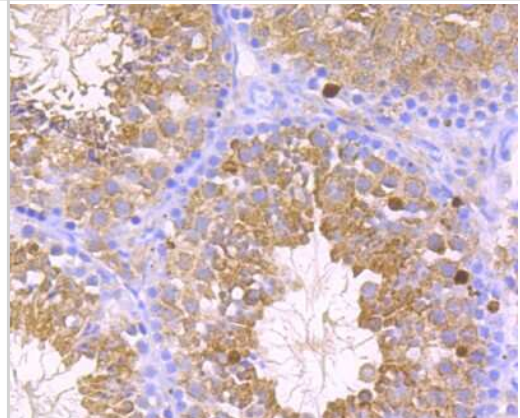
**Immunohistochemistry-Paraffin: Glutathione Peroxidase 4/GPX4 Antibody (JU11-31) [NBP2-75511]** - Analysis of paraffin-embedded mouse testis tissue with Rabbit anti-Glutathione Peroxidase 4/GPX4 antibody washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody at 1/500 dilution 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.



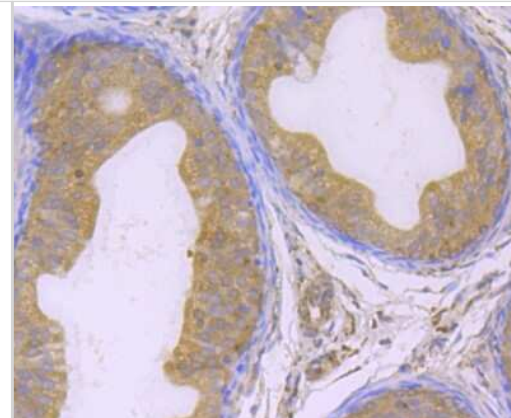
**Immunohistochemistry-Paraffin: Glutathione Peroxidase 4/GPX4 Antibody (JU11-31) [NBP2-75511]** - Analysis of paraffin-embedded human kidney tissue using anti-GPX4 antibody. Counter stained with hematoxylin.



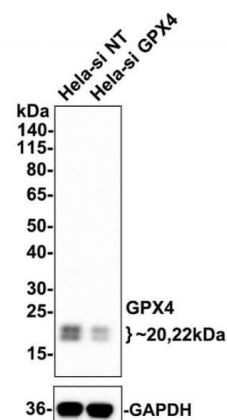
**Immunohistochemistry-Paraffin: Glutathione Peroxidase 4/GPX4 Antibody (JU11-31) [NBP2-75511]** - Analysis of paraffin-embedded mouse testis tissue using anti-GPX4 antibody. Counter stained with hematoxylin.



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-Wuerttemberg, 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**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **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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