Product Datasheet

Glutathione Peroxidase 3/GPX3 Antibody - BSA Free
NBP1-06398

Unit Size: 0.1 ml

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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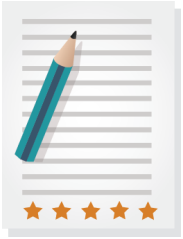
Updated 9/9/2025 v.20.1



NBP1-06398

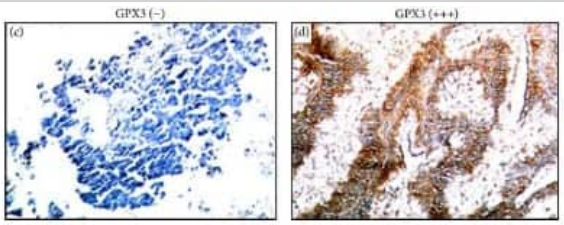
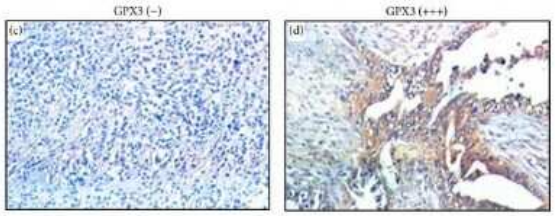
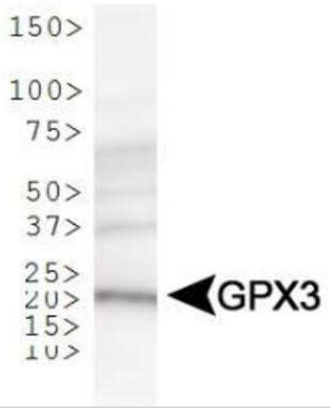
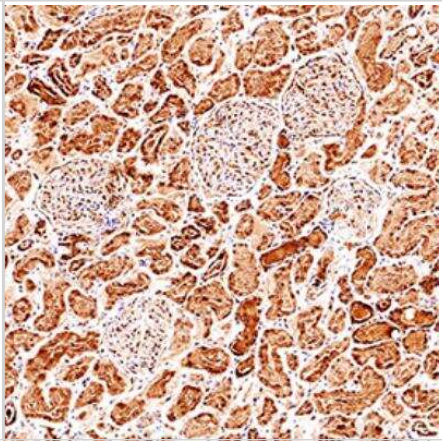
Glutathione Peroxidase 3/GPX3 Antibody - BSA Free

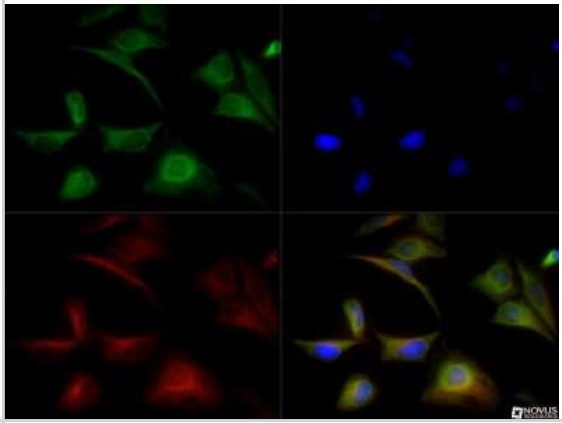
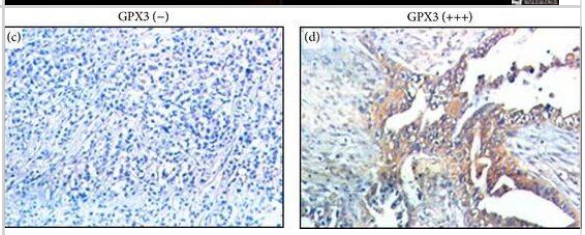
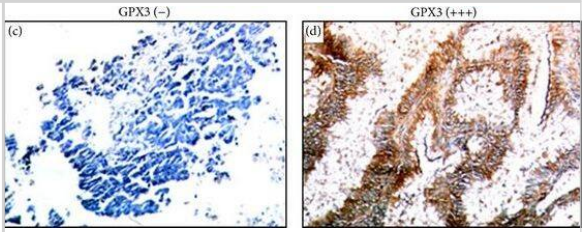
Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Unpurified
Buffer	Whole antisera
Target Molecular Weight	25 kDa

Product Description	
Description	Novus Biologicals Rabbit Glutathione Peroxidase 3/GPX3 Antibody - BSA Free (NBP1-06398) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Glutathione Peroxidase 3/GPX3 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	2878
Gene Symbol	GPX3
Species	Human, Rat, Primate
Reactivity Notes	Immunogen sequence has 89% identity to mouse, 88% identity to bovine and 84% identity to porcine.
Immunogen	Full length human Glutathione Peroxidase 3 expressed in E. coli. [Swiss-Prot# P22352]

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500, Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence 1:200, Immunohistochemistry-Paraffin 1:200. Use reported in scientific literature (PMID 24167362), Immunoblotting reported in scientific literature (PMID 29571702)
Application Notes	In Western blot, a band is seen ~25 kDa. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

Immunohistochemistry: Glutathione Peroxidase 3/GPX3 Antibody [NBP1-06398] - GPX3 expressions in adenocarcinoma (AC). EnVision immunohistochemistry, original magnification x200. GPX3 positive reaction was mainly localized in the cytoplasm. Negative GPX3 expression in poorly differentiated AC (c), and positive GPX3 expression in well-differentiated AC (d). Image collected and cropped by CiteAb from the following publication (https://www.hindawi.com/journals/dm/2013/187043/), licensed under a CC-BY license.	
Immunohistochemistry: Glutathione Peroxidase 3/GPX3 Antibody [NBP1-06398] - GPX3 expressions in squamous carcinomas/adenosquamous carcinomas (SC/ASC). EnVision immunohistochemistry, original magnification x200. GPX3 positive reaction was mainly localized in the cytoplasm. Negative GPX3 expression in poorly differentiated SC/ASC (c). Positive GPX3 expression in well-differentiated SC/ASC (d). Image collected and cropped by CiteAb from the following publication (https://www.hindawi.com/journals/dm/2013/187043/), licensed under a CC-BY license.	
Western Blot: Glutathione Peroxidase 3/GPX3 Antibody [NBP1-06398] - Analysis of GPX3 in human kidney lysate.	
Immunohistochemistry-Paraffin: Glutathione Peroxidase 3/GPX3 Antibody [NBP1-06398] - IHC analysis of formalin fixed paraffin-embedded (FFPE) human kidney using 1:200 conc. of Glutathione Peroxidase 3 antibody on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) using 10mM sodium citrate buffer (pH 6.0) and endogenous peroxidase quenching with peroxide block. The sections were incubated with primary antibody for 30 minutes and Bond Polymer Refine Detection (Leica Biosystems) with DAB was used for signal development followed by counterstaining with hematoxylin. Whole slide scanning and capturing of representative images was performed using Aperio AT2 (Leica Biosystems). Cytoplasmic staining of Glutathione Peroxidase 3 was observed. Staining was performed by Histowiz.	

Immunocytochemistry/Immunofluorescence: Glutathione Peroxidase 3/GPX3 Antibody [NBP1-06398] - The GPX3 antibody was tested in HeLa cells at a 1:250 dilution against Dylight 488 (Green). Alpha-tubulin and nuclei were counterstained against Dylight 550 (Red) and DAPI blue).	
Immunohistochemistry: Glutathione Peroxidase 3/GPX3 Antibody [NBP1-06398] - ALDH1A3 & GPX3 expressions in squamous carcinomas/adenosquamous carcinomas (SC/ASC). EnVision immunohistochemistry, original magnification ×200. ALDH1A3 & GPX3 positive reaction was mainly localized in the cytoplasm. (a), positive ALDH1A3 expression in poorly differentiated SC/ASC. (b), negative ALDH1A3 expression in well-differentiated SC/ASC. (c), negative GPX3 expression in poorly differentiated SC/ASC. (d), positive GPX3 expression in well-differentiated SC/ASC. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/24167362), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	
Immunohistochemistry: Glutathione Peroxidase 3/GPX3 Antibody [NBP1-06398] - ALDH1A3 & GPX3 expressions in adenocarcinoma (AC). EnVision immunohistochemistry, original magnification ×200. ALDH1A3 & GPX3 positive reaction was mainly localized in the cytoplasm. (a), positive ALDH1A3 expression in moderately differentiated AC. (b), negative ALDH1A3 expression in well-differentiated AC. (c), negative GPX3 expression in poorly differentiated AC. (d), positive GPX3 expression in well-differentiated AC. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/24167362), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Publications

Wu X, Tang S, Dai Q et al. Vitamin D-vitamin D receptor alleviates oxidative stress in ischemic acute kidney injury via upregulating glutathione peroxidase 3 FASEB journal : official publication of the Federation of American Societies for Experimental Biology 2023-02-01 [PMID: 36583727]

PAUL S, GANGWAR A, ARYA A, Ahmad Y Interplay of lung cytoskeletal re-modeling, energy metabolism and inflammation during extended exposures to lowered pO2 Authorea Preprints 2022-01-01 (WB, Human)

Bagchi AK, Malik A, Akolkar G et al. Study of ER stress and apoptotic proteins in the heart and tumor exposed to doxorubicin Biochimica et biophysica acta. Molecular cell research 2021-04-17 [PMID: 33857568]

Vignon C, Debeissat C, Bourgeais J et al. Involvement of GPx-3 in the Reciprocal Control of Redox Metabolism in the Leukemic Niche Int J Mol Sci 2020-11-14 [PMID: 33202543] (WB, Human)

Details:
Western blot analysis performed on human mesenchymal stromal cells from bone marrow.

Sun X, Lv Y, Wang J et al. Differential protein expression profiling by iTRAQ-2D-LC-MS/MS of rats treated with oxaliplatin J Neuroinflammation 2019-06-25 [PMID: 31237037] (WB, Rat)

Gangwar A, Paul S, Ahmad Y, Bhargava K. Competing trends of ROS and RNS-mediated protein modifications during hypoxia as an alternate mechanism of NO benefits. Biochimie 2018-05-01 [PMID: 29571702]

Paul S, Gangwar A, Bhargava K, Ahmad Y. STAT3-RXR-Nrf2 activates systemic redox and energy homeostasis upon steep decline in pO2 gradient. Redox Biol. 2017-10-17 [PMID: 29078168] (WB, Rat)

Zhao M, Liu Q, Gong Y et al. GSH-dependent Antioxidant Defense Contributes to the Acclimation of Colon Cancer Cells to Acidic Microenvironment Cell Cycle 2016-03-07 [PMID: 26950675] (WB, Human)

Yang ZL, Yang L, Zou Q et al. Positive ALDH1A3 and Negative GPX3 Expressions Are Biomarkers for Poor Prognosis of Gallbladder Cancer. Dis Markers. 2013-01-01 [PMID: 24167362] (IHC-P, Human)

Novus Biologicals USA
10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada
21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information
www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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