

# Product Datasheet

## NQO-1 Antibody NB100-1005

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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### Publications: 6

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**NB100-1005**

## NQO-1 Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

Product Description	
Description	Novus Biologicals Goat NQO-1 Antibody (NB100-1005) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-NQO-1 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Goat
Gene ID	1728
Gene Symbol	NQO1
Species	Human, Mouse, Rat, Porcine
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 22520446). Expected from sequence similarity: Canine
Specificity/Sensitivity	This products is expected to recognize all three reported isoforms (NP_000894.1, NP_001020604.1 and NP_001020605.1).
Immunogen	Peptide with sequence C-SIPTDNQIKARK corresponding to C-Terminus according to NP_000894.1, NP_001020604.1, NP_001020605.1.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Peptide ELISA
Recommended Dilutions	Western Blot 0.1 - 0.3 ug/mL, Immunohistochemistry 2.0 - 4.0 ug/ml, Immunocytochemistry/ Immunofluorescence 10 ug/ml, Immunohistochemistry-Paraffin 2.0 - 4.0 ug/ml, Peptide ELISA Detection limit 1:64000
Application Notes	Western blot: Approx. 30kDa band observed in lysates of cell lines U251 and HepG2 and in Human Kidney, Lung and Duodenum lysates, and approx. 30-32kDa band in Rat Kidney, Lung and Duodenum lysates (calculated MW of 30.9kDa according to Human NP_000894.1 and Rat NP_058696.2). Recommended concentration: 0.1-0.3ug/ml. Primary incubation 1 hour at room temperature.

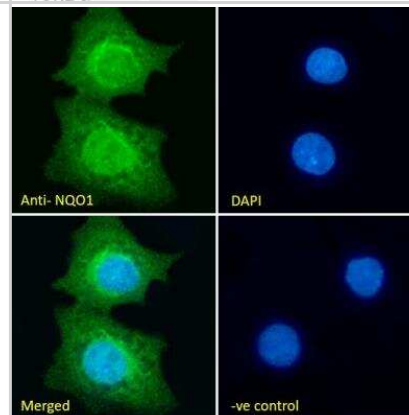


## Images

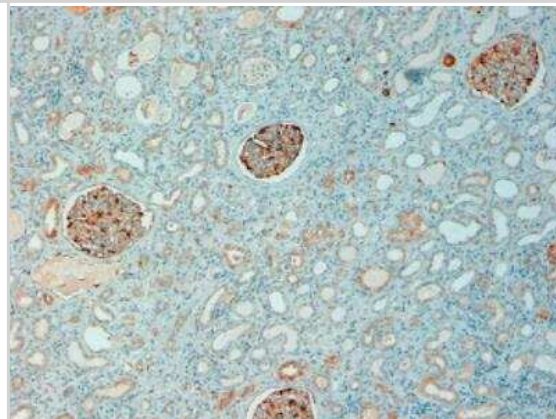
Western Blot: NQO-1 Antibody [NB100-1005] - (0.3ug/ml) staining of U251 (A) and HepG2 (B) cell lysate. (35ug protein in RIPA buffer). Detected by chemiluminescence.



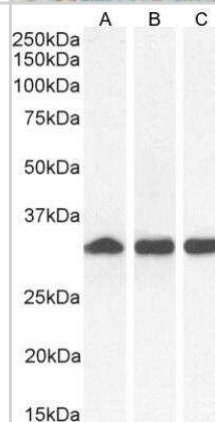
Immunocytochemistry/Immunofluorescence: NQO-1 Antibody [NB100-1005] - Immunofluorescence analysis of paraformaldehyde fixed HepG2 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic and some nuclear staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



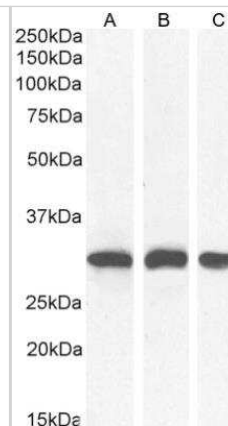
Immunohistochemistry: NQO-1 Antibody [NB100-1005] - (2ug/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Western Blot: NQO-1 Antibody [NB100-1005] - (0.3ug/ml) staining of Rat Kidney (A), Lung (B) and Duodenum (C) lysate. (35ug protein in RIPA buffer). Detected by chemiluminescence.



Western Blot: NQO-1 Antibody [NB100-1005] - (0.3ug/ml) staining of Human Kidney (A), Lung (B) and Duodenum (C) lysate. (35ug protein in RIPA buffer). Detected by chemiluminescence



## Publications

Yamada M, Warabi E, Oishi H, Lira VA et Al. Muscle-derived IL-1 $\beta$  regulates EcSOD expression via the NBR1-p62-Nrf2 pathway in muscle during cancer cachexia J Physiol 2024-08-21 [PMID: 39167700]

Himori K, Yamada M, Onoki T, Matsumaru D et Al. Nrf2 deficiency in muscle attenuates experimental autoimmune myositis-induced muscle weakness J Physiol 2024-10-21 [PMID: 39429109]

Yamada M, Iwata M, Warabi E et al. p62/SQSTM1 and Nrf2 are essential for exercise-mediated enhancement of antioxidant protein expression in oxidative muscle FASEB J. 2019-03-26 [PMID: 30913396] (WB, Mouse)

Asher G, Lotem J, Kama R et al. NQO1 stabilizes p53 through a distinct pathway. Proc Natl Acad Sci U S A 2002-03-05 [PMID: 11867746]

Dukes F, Kanterakis S, Lee J et al. Gene expression profiling of flaxseed in mouse lung tissues-modulation of toxicologically relevant genes BMC Complement Altern Med 2012-04-20 [PMID: 22520446] (WB, Mouse)

Singh S, Zahid M, Saeed M, Gaikwad NW, Meza JL, Cavalieri EL, Rogan EG, Chakravarti D. AD(P)H:quinone oxidoreductase 1 Arg139Trp and Pro187Ser polymorphisms imbalance estrogen metabolism towards DNA adduct formation in human mammary epithelial cells. J Steroid Biochem Mol Biol;117(1-3):56-66. 2009-10-01 [PMID: 19628038]



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### Products Related to NB100-1005

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NBL1-13761	NQO-1 Overexpression Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat 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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