

# Product Datasheet

## NQO-1 Antibody NB100-1005

Unit Size: 0.1 mg

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

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[technical@novusbio.com](mailto:technical@novusbio.com)

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**NB100-1005****NQO-1 Antibody****Product Information**

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

**Product Description**

<b>Host</b>	Goat
<b>Gene ID</b>	1728
<b>Gene Symbol</b>	NQO1
<b>Species</b>	Human, Mouse, Rat, Porcine
<b>Reactivity Notes</b>	Mouse reactivity reported in scientific literature (PMID: 22520446). Expected from sequence similarity: Canine
<b>Specificity/Sensitivity</b>	This products is expected to recognize all three reported isoforms (NP_000894.1, NP_001020604.1 and NP_001020605.1).
<b>Immunogen</b>	Peptide with sequence C-SIPTDNQIKARK corresponding to C-Terminus according to NP_000894.1, NP_001020604.1, NP_001020605.1.

**Product Application Details**

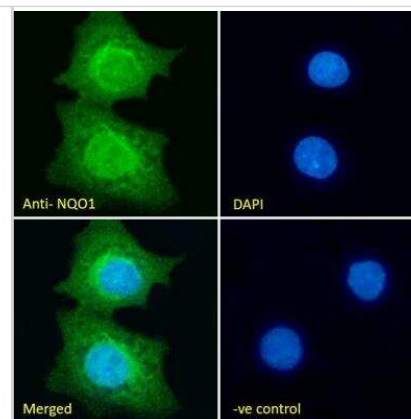
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
<b>Recommended Dilutions</b>	Western Blot 0.1 - 0.3 ug/mL, Immunohistochemistry 2.0 - 4.0 ug/ml, Immunocytochemistry/ Immunofluorescence 10 ug/ml, Immunohistochemistry-Paraffin 2.0 - 4.0 ug/ml, Peptide ELISA Detection limit 1:64000
<b>Application Notes</b>	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**

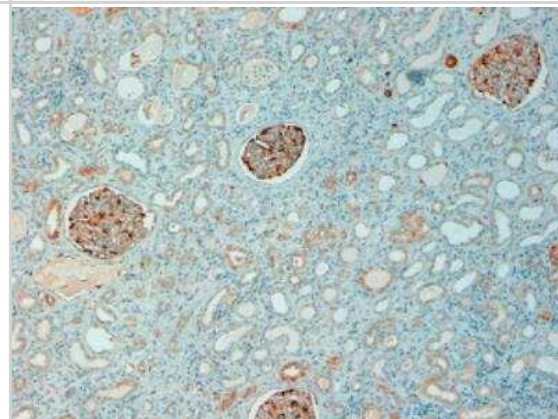
Western Blot: NQO-1 Antibody [NB100-1005] - (0.3ug/ml) staining of U251 (A) and HepG2 (B) cell lysate. (35ug protein in RIPA buffer). Detected by chemiluminescence.



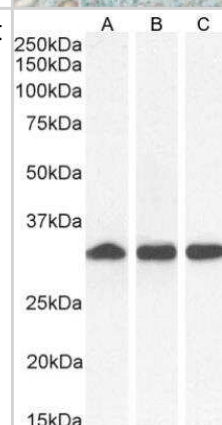
**Immunocytochemistry/Immunofluorescence:** NQO-1 Antibody [NB100-1005] - Immunofluorescence analysis of paraformaldehyde fixed HepG2 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic and some nuclear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



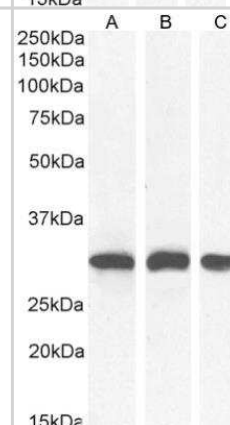
**Immunohistochemistry:** NQO-1 Antibody [NB100-1005] - (2ug/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



**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, 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]





### **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](http://www.novusbio.com)  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NB100-1005**

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NBL1-13761	NQO-1 Overexpression Lysate
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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