

# Product Datasheet

## NQO-1 Antibody (A180) - Azide and BSA Free NBP2-80885

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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**NBP2-80885**

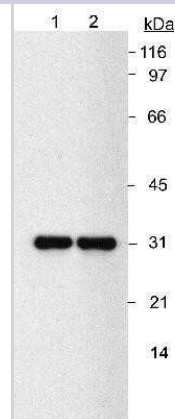
NQO-1 Antibody (A180) - Azide and BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	A180
Preservative	No Preservative
Isotype	IgG1
Purity	Protein G purified
Buffer	Tris-Glycine, 0.15 M NaCl
Target Molecular Weight	31 kDa
Product Description	
Host	Mouse
Gene ID	1728
Gene Symbol	NQO1
Species	Human, Mouse, Rat, Canine, Primate
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 24475200)
Immunogen	Full length recombinant NQO1 from human lung [UniProt# P15559]
Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000, Simple Western 1:100, Flow Cytometry 1-2 ug/ml, Immunohistochemistry 1:100, Immunocytochemistry/ Immunofluorescence 1:50, Immunoprecipitation 1:1000, Immunohistochemistry-Paraffin 1:100, Immunohistochemistry-Frozen 1:100, Flow (Intracellular)
Application Notes	<p>In Western blot a band can be seen at approx. 31 kDa representing NQO1. In ICC/IF, cytoplasmic staining was observed in U2OS cells. In IHC-P, staining was observed in the cytoplasm of human breast cancer tissue.</p> <p>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. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.</p> <p>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point.</p> <p>See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: antibody dilution of 1:100. Separated by Size-Wes, Sally Sue/Peggy Sue.</p> <p>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.</p>

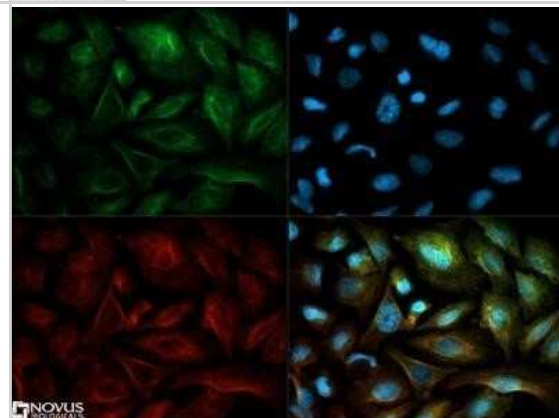


## Images

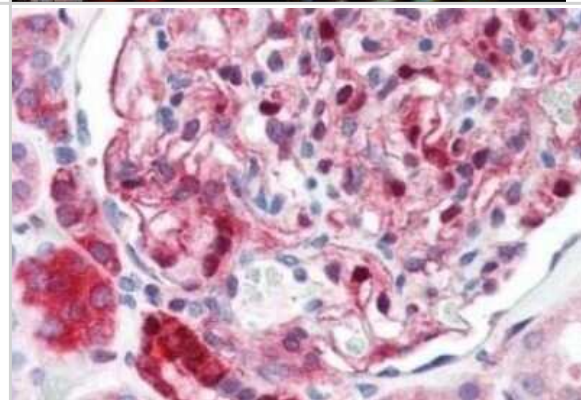
Western Blot: NQO-1 Antibody (A180) - Azide and BSA Free [NBP2-80885] - Detection of NQO1 in A549 lysates using NB 200-209. Lane 1: 0.5 ug/ml. Lane 2: 2 ug/ml. Exposure: 1 second. Image from the standard format of this antibody.



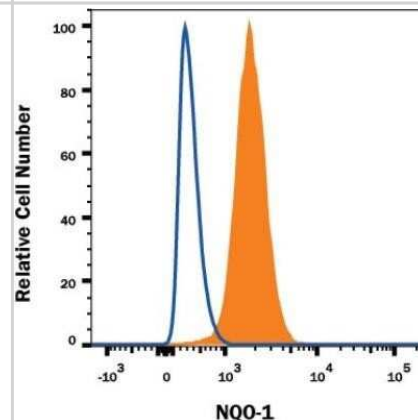
Immunocytochemistry/Immunofluorescence: NQO-1 Antibody (A180) - Azide and BSA Free [NBP2-80885] - NQO1 antibody was tested in U2OS cells with Dylight 488 (green). Nuclei and beta-tubulin were counterstained with DAPI (blue) and Dylight 550 (red). Image from the standard format of this antibody.



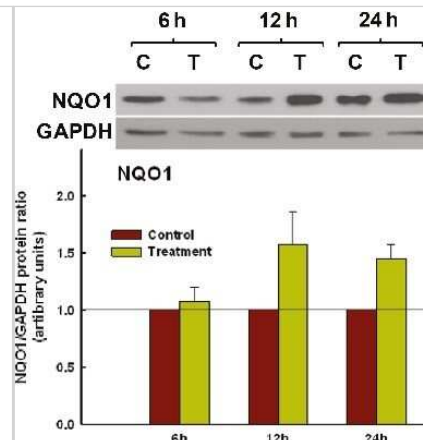
Immunohistochemistry-Paraffin: NQO-1 Antibody (A180) - Azide and BSA Free [NBP2-80885] - Immunohistochemistry showing Anti-NQO1 on formalin fixed paraffin embedded human kidney tissue Image from the standard format of this antibody.



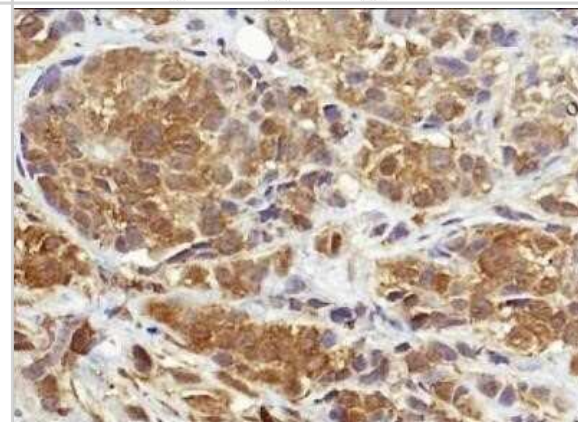
Flow Cytometry: NQO-1 Antibody (A180) - Azide and BSA Free [NBP2-80885] - Detection of NQO-1 in Human A549 Cell Line by Flow Cytometry. Human A549 cell line was stained with Mouse Anti- NQO-1 Monoclonal Antibody (Catalog # NB200-209, filled histogram), or Mouse IgG1 isotype control (Catalog # MAB002, open histogram) followed by APC-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). To facilitate intracellular staining, cells were fixed with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # FC012). Images may not be copied, printed or otherwise disseminated without express written permission of Novus Biologicals a Bio-Techne brand. Image from the standard format of this antibody.



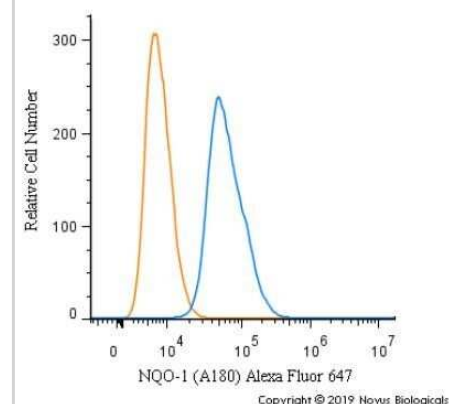
**Western Blot: NQO-1 Antibody (A180) - Azide and BSA Free [NBP2-80885]** - Antioxidant enzyme synthesis in response to orange oil treatment. Immunoblot analysis demonstrating expression of NQO1 protein at 6, 12 and 24 hrs following 15 min treatment of BEAS-2B cells with the oil preparation or time-matched soy oil control. Representative blots from one of three separate experiments are shown above. Densitometric evaluations of each target protein blot normalized to its corresponding GAPDH for all three experiments are provided below. Bars represent mean  $\pm$  SEM. Image collected and cropped by CiteAb from the following publication (<https://respiratory-research.biomedcentral.com/articles/10.1186/1465-9921-12-92>), licensed under a CC-BY license. Image from the standard format of this antibody.



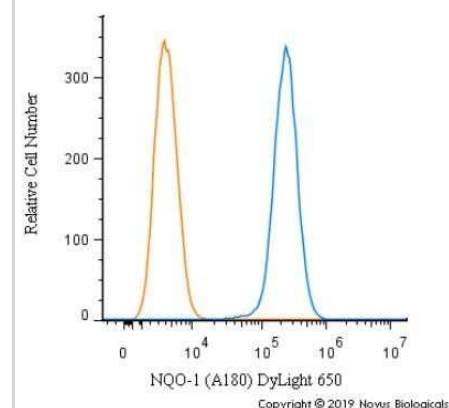
**Immunohistochemistry: NQO-1 Antibody (A180) - Azide and BSA Free [NBP2-80885]** - Analysis of NQO1 in human breast cancer using DAB with hematoxylin counterstain. Image from the standard format of this antibody.



**Flow Cytometry: NQO-1 Antibody (A180) - Azide and BSA Free [NBP2-80885]** - An intracellular stain was performed on U-87 cells with NQO-1 [A180] Antibody NB200-209AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5  $\mu$ g/mL for 30 minutes at room temperature. Both antibodies were directly conjugated to Alexa Fluor 647.



**Flow Cytometry: NQO-1 Antibody (A180) - Azide and BSA Free [NBP2-80885]** - An intracellular stain was performed on U-87 cells with NQO-1 [A180] Antibody NB200-209C (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5  $\mu$ g/mL for 30 minutes at room temperature. Both antibodies were directly conjugated to DyLight 650.



Simple Western: NQO-1 Antibody (A180) - Azide and BSA Free [NBP2-80885] - Simple Western lane view shows a specific band for NQO-1 in 0.5 mg/ml of A431 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. Image from the standard format of this antibody.





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### **Products Related to NBP2-80885**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP1-85223PEP	NQO-1 Recombinant Protein Antigen

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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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