





NQO1 Polyclonal Antibody

Catalog Number PA5-18022 Product data sheet

Details	
Size	100 μg
Host/Isotope	Goat / IgG
Class	Polyclonal
Туре	Antibody
Immunogen	Synthetic peptide sequence (SIPTDNQIKARK) corresponding to the C-terminus amino acids of NQO1
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Ammonium sulfate precipitation
Storage buffer	TBS, pH 7.3, with 0.5% BSA
Contains	0.02% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles

Species Reactivity	
Species reactivity	Human, Rat
Tested Applications	Dilution *
Immunohistochemistry (Paraffin) (IHC (P))	2-4 µg/mL
Western Blot (WB)	0.1-0.3 μg/mL
Immunocytochemistry (ICC/IF)	10 μg/mL

^{*} Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

This antibody is predicted to react with porcine and rat based on sequence homology. This antibody is tested in Peptide ELISA: antibody detection limit dilution 64,000.

Background/Target Information

NQO1 is a member of the NAD(P)H dehydrogenase (quinone) family and a cytoplasmic 2-electron reductase. This FAD-binding protein forms homodimers and reduces quinones to hydroquinones. NQO1's enzymatic activity prevents the one electron reduction of quinones that results in the production of radical species. Altered expression of the protein has been seen in many tumors and is also associated with Alzheimer's disease (AD).

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

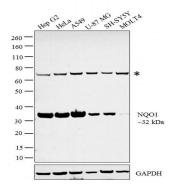
For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The varranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample unstant of the product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample unstant of the product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT, BUYER'S EXCLUSINE REALED FOR ROCKETOR POR REFUNDED FOR ROCKETOR FOR REFUNDED FOR ROPE OF REFUNDED FOR ROCKETOR FOR REFUNDED FOR REFUNDED FOR ROCKETOR FOR REFUNDED FOR REFUNDED FOR ROCKETOR FOR REFUNDED FOR

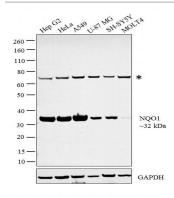


Product Images For NQO1 Polyclonal Antibody



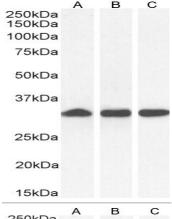
NQO1 Antibody (PA5-18022)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Abundant expression of NQO1 was observed in all the cell lines except SH-SY5Y and MOLT4 which showed little or no expression respectively using NQO1 Polyclonal Antibody (Product # PA5-18022) in Western Blot. {RE}



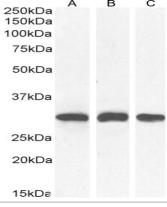
NQO1 Antibody (PA5-18022) in WB

Western blot analysis was performed on whole cell extracts (30 μg lysate) of Hep G2 (Lane 1), HeLa (Lane 2), A549 (Lane 3), U-87 MG (Lane 4), SH-SY5Y (Lane 5) and MOLT4 (Lane 6). The blot was probed with Anti-NQO1 Polyclonal Antibody (Product # PA5-18022, 1:1,000 dilution) and detected by chemiluminescence using Rabbit anti-Goat IgG Heavy Chain SuperclonalTM Secondary Antibody, HRP conjugate (Product # A27014, 0.25 μg/mL, 1:4,000 dilution). A 32 kDa band corresponding to NQO1 was detected across the cell lines tested except SH-SY5Y and MOLT4 which showed little or no expression respectively as reported in the literature. An additional non-specific band (*) was observed at ~70 kDa.



NQO1 Antibody (PA5-18022) in WB

Western blot analysis of NQO1 using NQO1 Polyclonal Antibody (Product # PA5-18022) (0.3 μ g/mL) in staining of Rat Kidney (A), Rat Lung (B) and Rat Duodenum (C) lysate. (35 μ g protein in RIPA buffer). Detected by chemiluminescence.



NQO1 Antibody (PA5-18022) in WB

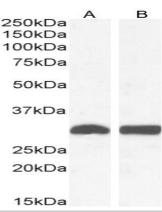
Western blot analysis of NQO1 using NQO1 Polyclonal Antibody (Product # PA5-18022) (0.3 μg/mL) in staining of Human Kidney (A), Lung (B) and Duodenum (C) lysate. (35 μg protein in RIPA buffer). Detected by chemiluminescence.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample unrished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

NO OTHER WARRANTES, EXPRESS OR MINEED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT, BUYER'S EXCLUSINE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPRIA, REPLACEMENT OF OR REFUND FOR PROPHING PROPROJECT OR REFUND FOR PROPHING PROPHOLOGY. DISASTER OR EVENT OF FORCE WARRANTIES OF MINERAL PROPHING PROPHOLOGY. SHE THE NON-CONFORMING PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (1) MIPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unathorized commercial uses, in vitto departs uses, or any tope of consumption by or application to human or animals.

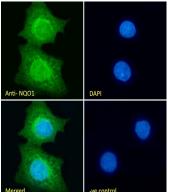




NQO1 Antibody (PA5-18022) in WB

Western blot analysis of NQO1 using NQO1 Polyclonal Antibody (Product # PA5-18022) (0.3 μ g/mL) in staining of U251 (A) and HepG2 (B) cell lysate. (35 μ g protein in RIPA buffer). Detected by chemiluminescence.

NQO1 Antibody (PA5-18022) in ICC/IF



Immunocytochemistry analysis of NQO1 using NQO1 Polyclonal Antibody (Product # PA5-18022) in paraformaldehyde fixed HepG2 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 μ g/mL) followed by Alexa Fluor 488 secondary antibody (2 μ g/mL), showing cytoplasmic and some nuclear staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 μ g/mL) followed by Alexa Fluor 488 secondary antibody (2 μ g/mL).

NQO1 Antibody (PA5-18022) in IHC (P)

Immunohistochemistry (PFA fixed) analysis of NQO1 using NQO1 Polyclonal Antibody (Product # PA5-18022) (2 µg /mL) in staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample until a provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample.

Uniform the product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BLYER'S EXCLUSIVE REMETY FOR NON-CONFORMING PRODUCTS DURING YEAR PERIOD IS LIMITED TO REPRIA, BEFLACE OR REFUND FOR PRODUCT FIT IN ENO-CONFORMING PRODUCTS, OF ATELIER'S DICE OFTION. THERE IS NO EDUCATION TO REPRIA, BEFLACE OR REFUND FOR PRODUCTS. AS THE RESULT OF (I) ACCIDISED THE NON-CONFORMING PRODUCTS (IN ADMINISTRY OF THE NON-CONFORMING PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR IVITY (II) WIRPOPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended or research only and is not to be used off or any other purpose, including without limitation, unaufforced commercial uses, in vitro disponsible uses, or any two of of consumotion by or a conscilication to human or animals.

