

## Rabbit anti-Human NQO1 Polyclonal Antibody | anti-NQO1 antibody

Anti-NQO1 Antibody, Rabbit Polyclonal

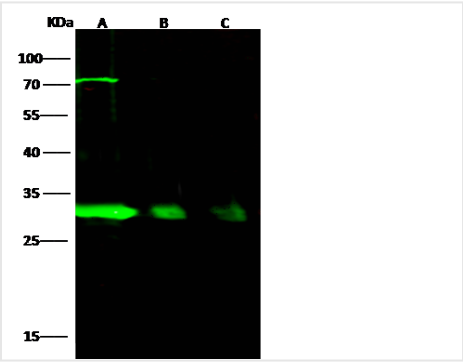
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                             |
|-----------|--------|------------|------------------------------------------|
| AAA255510 | Rabbit | Human      | Immunoprecipitation, ELISA, Western Blot |

### PRODUCT SYNONYMS

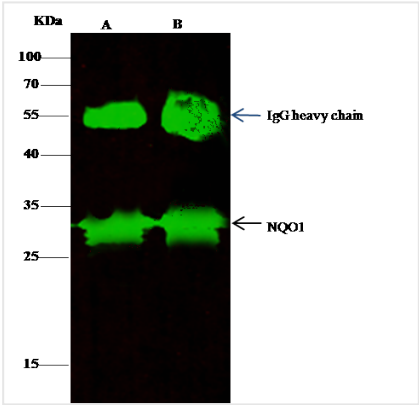
NQO1; Polyclonal Antibody; Anti-NQO1 Antibody; Rabbit Polyclonal; NQO1 Antibody; Rabbit PAb; Antigen Affinity Purified; NAD(P)H dehydrogenase; quinone 1; Anti-DHQU Antibody; Anti-DIA4 Antibody; Anti-DTD Antibody; Anti-NMOR1 Antibody; Anti-NMORI Antibody; Anti-QR1 Antibody; anti-NQO1 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                       |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                |
| Reactivity                                     | Human                                                                                                                                                                                                                                                                 |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                            |
| Isotype                                        | Rabbit IgG                                                                                                                                                                                                                                                            |
| Specificity                                    | Human NQO1                                                                                                                                                                                                                                                            |
| Purity/Purification                            | Protein A & Antigen Affinity                                                                                                                                                                                                                                          |
| Form/Format                                    | Liquid; 0.2um filtered solution in PBS                                                                                                                                                                                                                                |
| Applicable Applications for anti-NQO1 antibody | IP (Immunoprecipitation), ELISA, WB (Western Blot)                                                                                                                                                                                                                    |
| Immunogen                                      | Recombinant Human NQO1 Protein                                                                                                                                                                                                                                        |
| Conjugation                                    | Unconjugated                                                                                                                                                                                                                                                          |
| Preparation                                    | Produced in rabbits immunized with purified, recombinant Human NQO1 (rh NQO1). NQO1 specific IgG was purified by Human NQO1 affinity chromatography.                                                                                                                  |
| Preparation and Storage                        | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. |



**WB (Western Blot)**  
Anti-NQO1 rabbit polyclonal antibody at 1:500 dilution  
Lane A: A549 Whole Cell Lysate  
Lane B: MCF7 Whole Cell Lysate  
Lane C: HepG2 Whole Cell Lysate  
Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 31 kDa  
Observed band size: 31 kDa  
(We are unsure as to the identity of these extra bands.)



**IP (Immunoprecipitation)**  
NQO1 was immunoprecipitated using:  
Lane A: 0.5 mg Hela Whole Cell Lysate  
Lane B: 0.5 mg HepG2 Whole Cell Lysate  
2 uL anti-NQO1 rabbit polyclonal antibody and 15 uL of 50 % Protein G agarose.  
Primary antibody: Anti-NQO1 rabbit polyclonal antibody, at 1:200 dilution  
Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution  
Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 31 kDa  
Observed band size: 31 kDa

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-NQO1 antibody</b> | NQO1 gene is a member of the NAD(P)H dehydrogenase (quinone) family and encodes a cytoplasmic 2-electron reductase. NQO1 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. Mutations in the NQO1 gene have been associated with tardive dyskinesia (TD), an increased risk of hematotoxicity after exposure to benzene, and susceptibility to various forms of cancer. Altered expression of NQO1 has been seen in many tumors and is also associated with Alzheimer's disease (AD). Alternate transcriptional splice variants, encoding different isoforms, have been characterized. Recent pharmacological research suggests the feasibility of genotype-directed redox chemotherapeutic intervention targeting NQO1 breast cancer, a common missense genotype encoding a functionally impaired NQO1 protein. |
| <b>References</b>                                         | Ross David. et al., 2002, J Biol Chem. 277 (16): 14060-7. Cabello CM. et al., 2010, Free Radic Res. 45 (3): 276-92. Adesnik M. et al., 1988, J Biol Chem. 263 (27): 13572-8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                                                                                                                                                                                  |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | 118607                                                                                                                                                                                                                                                           |
| <b>NCBI GeneID</b>                      | 1728                                                                                                                                                                                                                                                             |
| <b>UniProt Accession #</b>              | P15559; Q86UK1; B2R5Y9; B4DNM7; B7ZAD1                                                                                                                                                                                                                           |
| <b>Molecular Weight</b>                 | 274                                                                                                                                                                                                                                                              |
| <b>NCBI Official Full Name</b>          | NAD(P)H dehydrogenase                                                                                                                                                                                                                                            |
| <b>NCBI Official Synonym Full Names</b> | NAD(P)H dehydrogenase, quinone 1                                                                                                                                                                                                                                 |
| <b>NCBI Official Symbol</b>             | NQO1                                                                                                                                                                                                                                                             |
| <b>NCBI Official Synonym Symbols</b>    | DTD; QR1; DHQU; DIA4; NMOR1; NMORI                                                                                                                                                                                                                               |
| <b>NCBI Protein Information</b>         | NAD(P)H dehydrogenase [quinone] 1; NAD(P)H dehydrogenase [quinone] 1; azoreductase; diaphorase-4; DT-diaphorase; dioxin-inducible 1; menadione reductase; quinone reductase 1; phyloquinone reductase; NAD(P)H:quinone oxidoreductase; NAD(P)H:quinone oxidoredu |
| <b>UniProt Protein Name</b>             | NAD(P)H dehydrogenase [quinone] 1                                                                                                                                                                                                                                |
| <b>UniProt Gene Name</b>                | NQO1                                                                                                                                                                                                                                                             |
| <b>UniProt Synonym Gene Names</b>       | DIA4; NMOR1; DTD; QR1                                                                                                                                                                                                                                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/nqo1-antibody-immunoprecipitation-western-blot-elisa/255510>