

Anti-NQO1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Pig,Horse,Rabbit,GuineaPig)
Molecular Weight:	Theoretical: 31 kDa. Actual: 31 kDa.
Purification:	Protein A purified

Applications

1. Paraformaldehyde-fixed, paraffin embedded (rat stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (NQO1) Polyclonal Antibody, Unconjugated (TMAB-01261) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

2. Sample:

A549 (Human) Cell Lysate at 30 µg

Primary: Anti-NQO1 (TMAB-01261) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 31 kDa

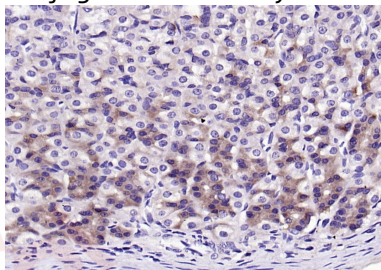
Observed band size: 31 kDa

3. Tissue/cell: mouse colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;

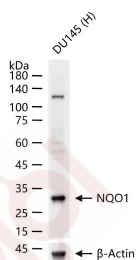
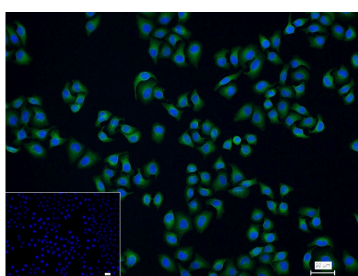
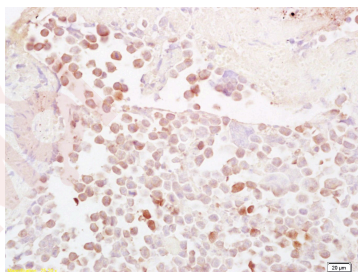
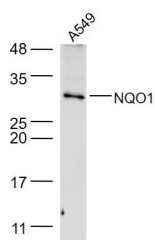
Incubation: Anti-NQO1 Polyclonal Antibody, Unconjugated (TMAB-01261) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

4. 4% Paraformaldehyde-fixed HepG2 (H) cell; Triton X-100 at RT for 20 min; Antibody incubation with (NQO1) polyclonal Antibody, unconjugated (TMAB-01261) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green) at 37°C for 90 min, DAPI (blue) was used to stain the cell nucleus. PBS instead of the primary antibody was used as the blank control.

5. 25 µg total protein per Lane of various lysates probed with NQO1 polyclonal antibody, unconjugated (TMAB-01261) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at RT for 60 min.



Verified Activity:



Application: WB,ICC/IF

Recommended WB=1:500-2000,ICC/IF=1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human NQO1

Antigen Species: Human

Gene ID: 1728

Uniprot ID: P15559

Synonyms: DIA4;DTD;DHQU;NMORI;NMOR1;QR1;NAD(P)H dehydrogenase, quinone 1

Biology Area: Drug metabolism,Cancer,Drug metabolism

Research Background

This gene is a member of the NAD(P)H dehydrogenase (quinone) family and encodes a cytoplasmic 2-electron reductase. This FAD-binding protein forms homodimers and reduces quinones to hydroquinones. This protein's enzymatic activity prevents the one electron reduction of quinones that results in the production of radical species. Mutations in this 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 this protein 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. [provided by RefSeq].

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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