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**Research Use Only. Not for
diagnostic or therapeutic use.**

EB05370-T - Goat Anti-NQO1 Antibody - Trial

Size: 20µg specific antibody in 40µl



Target Protein

Principal Names: NQO1, NAD(P)H dehydrogenase, quinone 1, DTD, QR1, DHQU, DIA4, NMOR1, NMORI, diaphorase-4, diaphorase (NADH/NADPH), diaphorase (NADH/NADPH) (cytochrome b-5 reductase), NAD(P)H:menadione oxidoreductase 1, dioxin-inducible 1, DT-diaphorase, NAD(P)H menadione oxidoreductase 1, dioxin-inducible, NAD(P)H:Quinone acceptor oxidoreductase type 1, NAD(P)H menadione oxidoreductase 1, dioxin-inducible, NAD(P)H:quinone oxidoreductase, azoreductase, diaphorase (NADH/NADPH) (cytochrome b-5 reductase), dioxin-inducible 1, menadione reductase, phyloquinone reductase, quinone reductase 1

Official Symbol: NQO1

Accession Number(s): NP_000894.1; NP_001020604.1; NP_001020605.1

Human GeneID(s): [1728](#)

Non-Human GeneID(s): 18104 (mouse)

Important Comments: This products is expected to recognize all three reported isoforms (NP_000894.1, NP_001020604.1 and NP_001020605.1).

Immunogen

Peptide with sequence C-SIPTDNQIKARK, from the C Terminus of the protein sequence according to NP_000894.1; NP_001020604.1; NP_001020605.1.

Please note the [peptide](#) is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:64000.

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: 0.1-0.3µg/ml. Primary incubation 1 hour at room temperature.

IHC: In paraffin embedded Human Kidney shows specific staining of the glomeruli. Recommended concentration: 2-4µg/ml.

Immunofluorescence: Expression of the protein seen in the cytoplasm and nucleus of HepG2 cells. Recommended concentration: 10µg/ml.

Species Reactivity

Tested: Human, Rat

Expected from sequence similarity: Human, Rat, Dog, Pig

EB05370 (0.3µg/ml) staining of U251 (A) and HepG2 (B) cell lysate. (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB05370 (0.3µg/ml) staining of Human Kidney (A), Lung (B) and Duodenum (C) lysate. (35µg protein in RIPA buffer). Detected by chemiluminescence

EB05370 (0.3µg/ml) staining of Rat Kidney (A), Lung (B) and Duodenum (C) lysate. (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB05370 (2µg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

EB05370 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).