



20150218ML

# Anti-Human NQO1 protein (#1A80)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>101-M724</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse immunized with recombinant human NQO1).

## Target Background

<b>Synonyms (Target):</b>	NQO1 protein
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NQO1 (NADPH Quinone oxidoreductase 1; also named DTD and Menadiene reductase) is a 31-33 kDa cytoplasmic member of the NAD(P)H dehydrogenase family of enzymes. It is widely expressed, being found in adipocytes, endothelial cells and hepatocytes. NQO1 serves as a cyto-protective molecule, reducing quins and nitroaromatics without consuming sulfhydryl compounds. It also acts as a backup superoxide scavenger to SOD. NQO1 reportedly binds and stabilizes key cell protection molecules such as p53, thus acting as a gatekeeper for proteasome mediated protein turnover. Human NQO1 contains 274 amino acids. It contains an FMN reductase domain (aa 5-212) and two utilized Lys acetylation sites. NQO1 functions as a non-covalent homodimer. Full length human NQO1 shares 86% aa sequence identity with mouse NQO1.

## Database References Target

<b>Protein RefSeq:</b>	NP_000894.1
<b>UniProt ID:</b>	P15559
<b>mRNA RefSeq:</b>	NM_000903.2

## Product Specifications

<b>Host</b>	Mouse
<b>Reactivity against</b>	Human
<b>Clonality</b>	Monoclonal Antibody
<b>Clone</b>	(#1A80)
<b>Isotype</b>	IgG1
<b>Purification</b>	Protein G chromatography
<b>Antigen</b>	recombinant human NQO1
<b>Formulation</b>	lyophilized
<b>Reconstitution buffer</b>	PBS (sterile)

**Reconstitution:** Reconstitute the antibody with 500 µl sterile PBS and the final concentration is 200 µg/ml.

**Stability:** Lyophilized samples are stable for 2 years from date of receipt when stored at -70 °C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

**Remarks:** This antibody recognizes human NQO1 by Western Blot.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

## Applications

The antibody can be used within the following applications:

WB, ICC (P)

**Recommended usage:**

Western Blot: 1:1000 - 2000

IHC (Paraffin): 1:50-200.

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**