

NQO1 Antibody

Catalog No: #32295

Package Size: #32295-1 50ul #32295-2 100ul

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Description

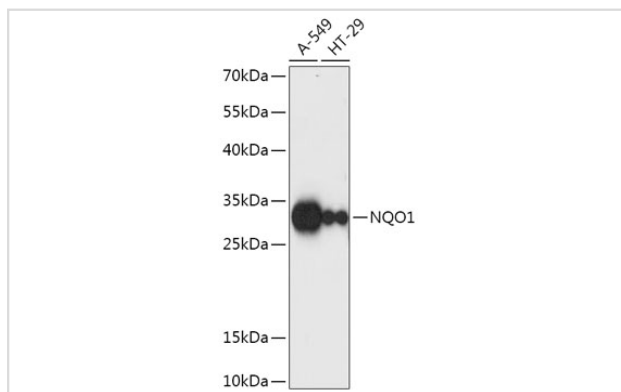
Product Name	NQO1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IF
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total NQO1 protein.
Immunogen Type	Peptide
Immunogen Description	A synthetic peptide of human NQO1 .
Target Name	NQO1
Other Names	DHQU; DIA4; DTD; NMOR1; NMORI
Accession No.	Swiss-Prot:P15559NCBI Gene ID:1728
SDS-PAGE MW	31KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

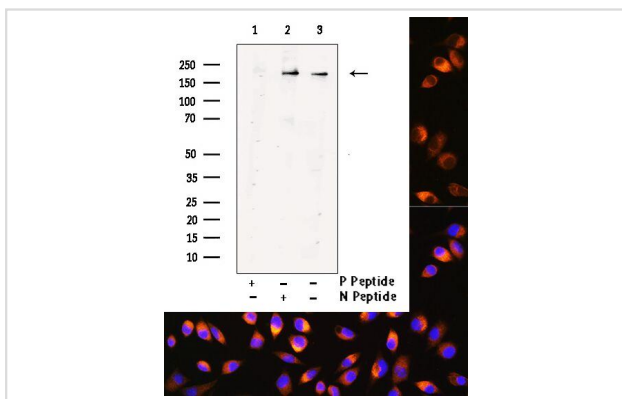
WB □ 1:500 - 1:2000

IF 1:50 - 1:200

Images



Western blot analysis of extracts of various cell lines, using NQO1 antibody at 1:1000 dilution.



Immunofluorescence analysis of L929 cells using NQO1 Rabbit pAb at dilution of 1:100. Blue: DAPI for nuclear staining.

Background

NAD(P)H:quinone oxidoreductase 1 (NQO1) is a flavoprotein that catalyzes the two-electron reduction of quinones and their derivatives (1,2). This enzyme protects cells against redox cycling and oxidative stress (1,3). The expression of NQO1 is increased in liver, colon and breast tumors and non-small cell lung cancer (NSCLC) compared with the normal tissues (1,2). Moreover, expression levels are also elevated in developing tumors, suggesting a role for NQO1 in the prevention of tumor development (1). Studies on NQO1 knockout mice suggest that the lack of NQO1 enzymatic activity changes intracellular redox states resulting in a reduction in apoptosis, which in turns leads to myeloid hyperplasia of bone marrow (2).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.