For Research Use Only

NQO1 Polyclonal antibody

Catalog Number: 11451-1-AP

Featured Product

299 Publications



Basic Information

Catalog Number: GenBank Accession Number: 11451-1-AP BC007659
Size: GeneID (NCBI): 1728
Source: UNIPROT ID: Rabbit P15559

gG NAD(P)H dehydrogenase, quinone 1

Immunogen Catalog Number:Calculated MW:AG2009274 aa, 31 kDaObserved MW:

31 kDa

Full Name:

Applications

Tested Applications: FC, IF/ICC, IHC, IP, WB, ELISA

Cited Applications: WB,IHC,IF

Isotype:

Species Specificity: human, mouse Cited Species:

human, goat, chicken, mouse, rabbit, pig, bovine

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HepG2 cells, K-562 cells, LNCaP cells, MCF-7 cells,

Purification Method:

WB 1:1000-1:8000

protein lysate

IHC 1:50-1:500

IF 1:50-1:500

Antigen affinity purification

IP 0.5-4.0 ug for 1.0-3.0 mg of total

Recommended Dilutions:

NIH/3T3 cells

IP: HepG2 cells,

IHC: human colon cancer tissue,

IF: HepG2 cells,

Background Information

NQO1, also named as DIA4, NMOR1, DTD and QR1, belongs to the NAD(P)H dehydrogenase (quinone) family. This enzyme apparently serves as a quinone reductase in connection with conjugation reactions of hydroquinons involved in detoxification pathways as well as in biosynthetic processes such as the vitamin K-dependent gammacarboxylation of glutamate residues in prothrombin synthesis. It is known to be involved in benzene metabolism. In human studies of ozone exposure, polymorphisms in oxidative stress genes (NQO1, GSTM1, GSTP1) modify respiratory symptoms, lung function, biomarkers and risk of asthma. (PMID:18511640; 18848868) This antibody recognizes all the three isoforms (26-27 kDa and 31 kDa) of NQO1 and the homo-dimer form (66-70 kDa) of NQO1.

Notable Publications

Author	Pubmed ID	Journal	Application
Xuan Wang	36167857	Nat Commun	WB
Zengxin Jiang	36238561	Front Pharmacol	WB
Taiwei Wang	36169181	Oncol Rep	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

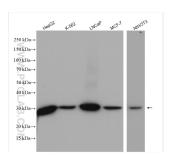
For technical support and original validation data for this product please contact:

T: 4006900926 E: Proteintech-CN@ptglab.com

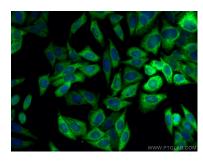
W: ptgcn.co

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

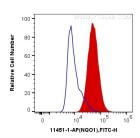
Selected Validation Data



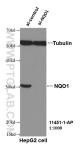
HepG2 cells were subjected to SDS PAGE followed by western blot with 11451-1-AP (NQO1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



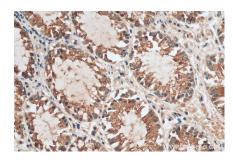
Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using NQO1 antibody (11451-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



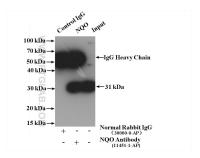
1X10^6 MCF-7 cells were intracellularly stained with 0.2 ug Anti-Human NQO1 (11451-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit I gG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



WB result of NQO1 antibody (11451-1-AP, 1:1000) with si-control and si-NQO1 transfected HepG2 cells.



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 11451-1-AP (NQO1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-NQO1 (IP:11451-1-AP, 4ug; Detection:11451-1-AP 1:300) with HepG2 cells lysate 3000 ug.