For Research Use Only

NQO1 Polyclonal antibody

Catalog Number:11451-1-AP

Featured Product

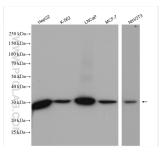
300 Publications



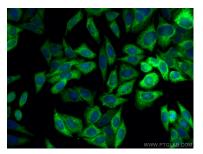
Basic Information	Catalog Number: 11451-1-AP	GenBank Accession Number BC007659	: Purification Method: Antigen affinity purification	
	Size: 150ul, Concentration: 550 µg/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG2009	GenelD (NCBI):	Recommended Dilutions:	
		1728	WB 1:1000-1:8000	
		UNIPROT ID:	IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate	
		P15559	IHC 1:50-1:500	
		Full Name: NAD(P)H dehydrogenase, qu	IF 1:50-1:500	
		Calculated MW:		
		274 aa, 31 kDa		
		Observed MW: 31 kDa		
Applications	Tested Applications:	Posit	tive Controls:	
	WB, IP, IF, FC, IHC, ELISA Cited Applications:	WB : HepG2 cells, K-562 cells, LNCaP cells, MCF-7 cells NIH/3T3 cells IP : HepG2 cells,		
	WB, IF, IHC			
	Species Specificity:		human colon cancer tissue,	
	human, mouse	IF : H	IF : HepG2 cells,	
	Cited Species: human, goat, chicken, mouse, rabbit, pig, bovine			
	Note-IHC: suggested antigen (TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0	vely, antigen		
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 gamma- carboxylation 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 Put	omed ID Journal	Application	
	Xuan Wang 36:	167857 Nat Commu	n WB	
	Zengxin Jiang 362	238561 Front Pharm	acol WB	
	Taiwei Wang 36:	169181 Oncol Rep	WB	
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50			
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20 $^{\circ}$ C s	torage		

T: 1 (1888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

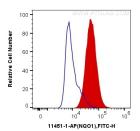
Selected Validation Data



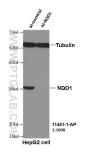
HepG2 cells were subjected to SDS PAGE followed by western blot with 11451-1-AP (NQO1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



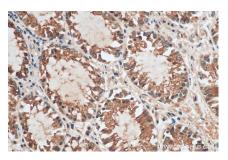
Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using NQO1 antibody (11451-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



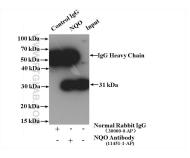
1X10^6 MCF-7 cells were intracellularly stained with 0.2 ug Anti-Human NQO1 (11451-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit lgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



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.