

For Research Use Only

NQO1 Recombinant monoclonal antibody

Catalog Number: 86693-2-RR

17 Publications



Basic Information

Catalog Number: 86693-2-RR	GenBank Accession Number: BC007659	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 1728	CloneNo.: 251713C3
Source: Rabbit	UNIPROT ID: P15559	Recommended Dilutions: WB: 1:5000-1:50000
Isotype: IgG	Full Name: NAD(P)H dehydrogenase, quinone 1	
Immunogen Catalog Number: AG2009	Calculated MW: 274 aa, 31 kDa	
	Observed MW: 31 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HeLa cells, HepG2 cells, HSC-T6 cells, K-562 cells, NIH/3T3 cells
Cited Applications: WB, IHC, IF, CoIP	
Species Specificity: human, mouse, rat	
Cited Species: mouse	

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 hydroquinones 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, PMID:18848868)

Notable Publications

Author	Pubmed ID	Journal	Application
Zheyi Wang	42556023	Eur J Med Chem	WB
Yashi Wang	42353082	Int J Mol Sci	WB
Qian Wang	42257653	J Asian Nat Prod Res	

Storage

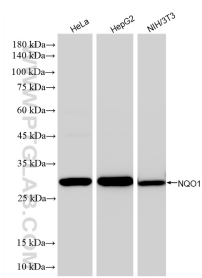
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

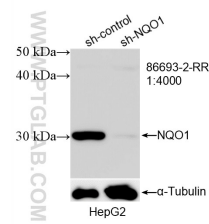
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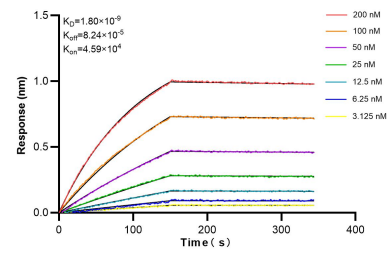
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86693-2-RR (NQO1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



WB result of NQO1 antibody (86693-2-RR; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NQO1 transfected HepG2 cells.



Biolayer interferometry (BLI) kinetic assays of 86693-2-RR against Human NQO1 were performed. The affinity constant is 1.80 nM.