

For Research Use Only

NQO1 Monoclonal antibody

Catalog Number: 67240-1-Ig **39 Publications**



Basic Information

Catalog Number: 67240-1-Ig	GenBank Accession Number: BC007659	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1728	CloneNo.: 1E5G7
Source: Mouse	Full Name: NAD(P)H dehydrogenase, quinone 1	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:2500-1:10000
Isotype: IgG2a	Calculated MW: 274 aa, 31 kDa	
Immunogen Catalog Number: AG28933	Observed MW: 29-31 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : HepG2 cells, HSC-T6 cells, L02 cells, K-562 cells
Cited Applications: IHC, WB	IHC : human colon tissue,
Species Specificity: Human, Rat, pig	
Cited Species: human, mouse, pig, rat	

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

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; 18848868)

Notable Publications

Author	Pubmed ID	Journal	Application
Jinliang Liu	34630847	Oxid Med Cell Longev	WB
Lei Zhao	34582963	Food Chem Toxicol	WB
Juan Chen	34577027	Molecules	WB

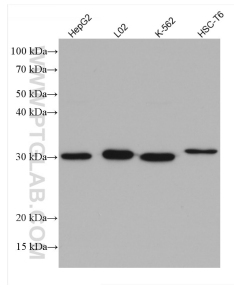
Storage

Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

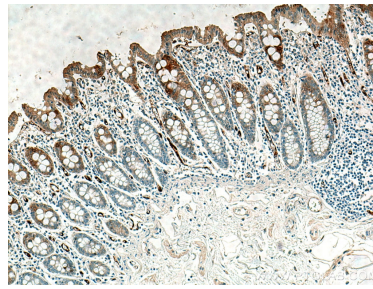
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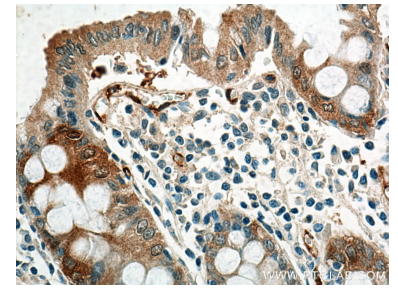
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67240-1-Ig (NQO1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 67240-1-Ig (NQO1 antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 67240-1-Ig (NQO1 antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).