

For Research Use Only

CoraLite® Plus 488-conjugated NQO1 Monoclonal antibody

Catalog Number:CL488-67240



Basic Information

Catalog Number:	GenBank Accession Number:	Purification Method:
CL488-67240	BC007659	Protein A purification
Size:	GeneID (NCBI):	CloneNo.:
100ul , Concentration: 1000 ug/ml by Nanodrop;	1728	1E5G7
Source:	UNIPROT ID:	Recommended Dilutions:
Mouse	P15559	IF/ICC 1:50-1:500
Isotype:	Full Name:	Excitation/Emission maxima
IgG2a	NAD(P)H dehydrogenase, quinone 1	wavelengths:
Immunogen Catalog Number:	Calculated MW:	493 nm / 522 nm
AG28933	274 aa, 31 kDa	
	Observed MW:	
	29-31 kDa	

Applications

Tested Applications:	Positive Controls:
IF/ICC, FC (Intra)	IF/ICC : HepG2 cells,
Species Specificity:	
human, rat	

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)

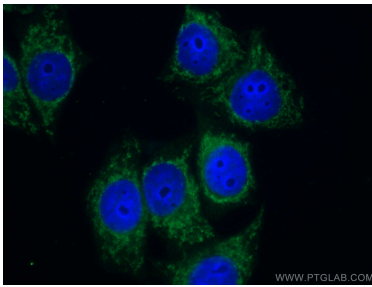
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

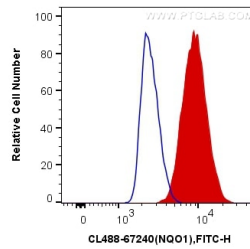
For technical support and original validation data for this product please contact:
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CL488-67240 (NQO1 antibody) at dilution of 1:100.



1X10⁶ MCF-7 cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human NQO1 (CL488-67240, Clone:1E5G7) (red), or 0.4 ug Mouse IgG2a Isotype Control (CL488-66360-2, Clone: K11A1B2A2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).