

For Research Use Only

CoraLite® Plus 647-conjugated NQO1 Monoclonal antibody



Catalog Number: CL647-67240

Basic Information

Catalog Number: CL647-67240	GenBank Accession Number: BC007659	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 1728	CloneNo.: 1E5G7
Source: Mouse	UNIPROT ID: P15559	Excitation/Emission maxima wavelengths: 654 nm / 674 nm
Isotype: IgG2a	Full Name: NAD(P)H dehydrogenase, quinone 1	
Immunogen Catalog Number: AG28933	Calculated MW: 274 aa, 31 kDa	
	Observed MW: 29-31 kDa	

Applications

Tested Applications:
Species Specificity:
human, rat, pig

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)

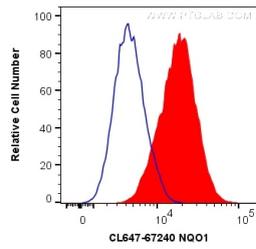
Storage

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:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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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



1X10⁶ MCF-7 cells were intracellularly stained with 0.2 ug CoraLite® Plus 647 Anti-Human NQO1 (CL647-67240, Clone:1E5G7) (red), or 0.2 ug isotype control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).