

For Research Use Only

# CoraLite® Plus 647-conjugated NQO1 Monoclonal antibody



Catalog Number:CL647-67240

## Basic Information

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

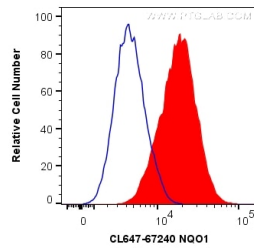
## Storage

**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:  
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## Selected Validation Data



1X10<sup>6</sup> 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).