

CoraLite[®] Plus 647-conjugated NQO1 Monoclonal antibody

Catalog Number: **CL647-67240**

Basic Information

Catalog Number:

CL647-67240

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG28933

GenBank Accession Number:

BC007659

GeneID (NCBI):

1728

UNIPROT ID:

P15559

Full Name:

NAD(P)H dehydrogenase, quinone 1

Calculated MW:

274 aa, 31 kDa

Observed MW:

29-31 kDa

Purification Method:

Protein A purification

CloneNo.:

1E5G7

**Excitation/Emission maxima
wavelengths:**

654 nm / 674 nm

Applications

Tested Applications:

FC (Intra)

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

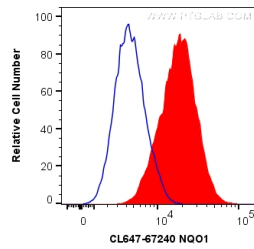
For technical support and original validation data for this product please contact:

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Selected Validation Data



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).