For Research Use Only

## CoraLite® Plus 488-conjugated NRF1/nuclear respiratory factor 1 Monoclonal antibody

Catalog Number:

CL488-66832



**Purification Method:** 

CloneNo.:

3C2B8

Protein A purification

Recommended Dilutions:

FC (Intra): 0.40 ug per 10^6 cells in a

Excitation/Emission maxima

IF/ICC: 1:50-1:500

100 µl suspension

wavelengths:

493 nm / 522 nm

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**Basic Information** 

GenBank Accession Number:

BC016925

GeneID (NCBI):

100ul, Concentration: 1000 ug/ml by 4899

Nanodrop: **UNIPROT ID:** 

Q16656 Mouse

Full Name:

Isotype: nuclear respiratory factor 1 lgG2b

Calculated MW: Immunogen Catalog Number: 522 aa, 56 kDa

AG28149 Observed MW:

70 kDa

**Applications** 

**Tested Applications:** IF/ICC, FC (Intra) Species Specificity:

human

Positive Controls: IF/ICC: HepG2 cells,

FC (Intra): HepG2 cells,

## **Background Information**

NRF1, also named as Alpha-pal and NRF-1, belongs to the NRF1/Ewg family. It is a transcription factor that activates the expression of the EIF2S1 (EIF2-alpha) gene. NRF1 is implicated in the control of nuclear genes required for respiration, heme biosynthesis, and mitochondrial DNA transcription and replication. It plays a critical role in regulating the expression of many antioxidant response element (ARE)-dependent genes. NRF1 exists various isoforms and long isoform is about 67 kDa and short isoform is about 45 kDa.

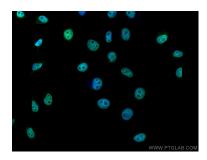
Storage

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

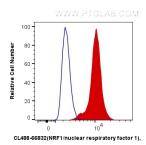
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Coralite® Plus 488 NRF 1 antibody (CL488-66832, Clone: 3C2B8) at dilution of 1:200.



1X10^6 HepG2 cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human NRF1/nuclear respiratory factor 1 (CL488-66832, Clone:3C288) (red), or 0.4 ug Mouse IgG2b Isotype Control (CL488-66360-3, Clone: K1188C4B5) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).