

# CoraLite®594-conjugated NRF1/nuclear respiratory factor 1 Monoclonal antibody

Catalog Number: **CL594-66832**

## Basic Information

Catalog Number: CL594-66832	GenBank Accession Number: BC016925	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 4899	CloneNo.: 3C2B8
Source: Mouse	UNIPROT ID: Q16656	Recommended Dilutions: IF/ICC 1:50-1:500
Isotype: IgG2b	Full Name: nuclear respiratory factor 1	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
Immunogen Catalog Number: AG28149	Calculated MW: 522 aa, 56 kDa	

## Applications

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

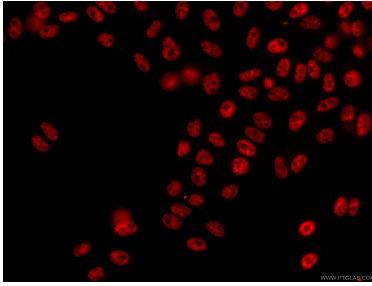
## Background Information

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.

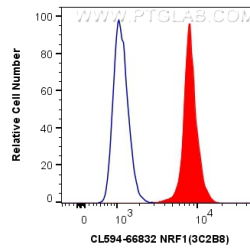
## Storage

**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

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CL594-66832 (NRF1/nuclear respiratory factor 1 antibody) at dilution of 1:100.



1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human NRF1/nuclear respiratory factor 1 (CL594-66832, Clone:3C2B8) (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).