For Research Use Only

## NRF1/nuclear respiratory factor 1 Monoclonal antibody, PBS Only

Size:

Catalog Number:66832-1-PBS



**Purification Method:** 

Protein A purification

CloneNo.:

3C2B8

**Basic Information** 

Catalog Number: 66832-1-PBS

GenBank Accession Number:

GeneID (NCBI):

1mg/ml 4899

Source: UNIPROT ID:
Mouse Q16656
Isotype: Full Name:

IgG2b nuclear respiratory factor 1

Immunogen Catalog Number: Calculated MW:

AG28149 522 aa, 56 kDa

Observed MW: 70 kDa

BC016925

**Applications** 

**Tested Applications:** 

WB, IHC, IF/ICC, FC (Intra), Indirect ELISA

Species Specificity:

human, mouse, rat

## **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

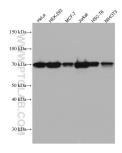
Storage:

Store at -80°C.

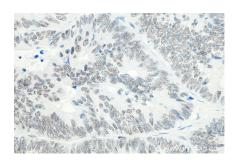
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer: PBS Only

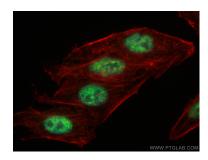
## **Selected Validation Data**



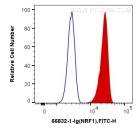
Various lysates were subjected to SDS PAGE followed by western blot with 66832-1-lg (NRF 1/nuclear respiratory factor 1) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66832-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 66832-1-Ig (NRF 1/nuclear respiratory factor 1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66832-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using NRF 1/nuclear respiratory factor 1 antibody (66832-1-lg, Clone: 3C2B8) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002), CL594-Phalloidin (red). This data was developed using the same antibody clone with 66832-1-PBS in a different storage buffer formulation.



1X10^6 HepG2 cells were intracellularly stained with 0.2 ug Anti-Human NRF1/nuclear respiratory factor 1 (66832-1-lg, Clone:3C2B8) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 66832-1-PBS in a different storage buffer formulation.