

For Research Use Only

# NRF1/nuclear respiratory factor 1 Recombinant antibody



Catalog Number:83092-1-RR

## Basic Information

<b>Catalog Number:</b> 83092-1-RR	<b>GenBank Accession Number:</b> BC016925	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4899	<b>CloneNo.:</b> 230394B1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q16656	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IF 1:150-1:600
<b>Isotype:</b> IgG	<b>Full Name:</b> nuclear respiratory factor 1	
<b>Immunogen Catalog Number:</b> AG3172	<b>Calculated MW:</b> 522 aa, 56 kDa	
	<b>Observed MW:</b> 70 kDa	

## Applications

<b>Tested Applications:</b> FC, IF, WB, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> Human, mouse	<b>WB :</b> HeLa cells, Jurkat cells, RAW 264.7 cells, NIH/3T3 cells, U2OS cells <b>IF :</b> 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

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

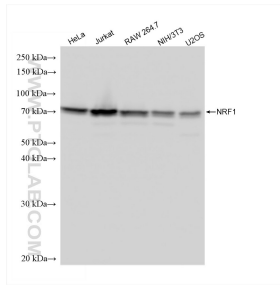
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

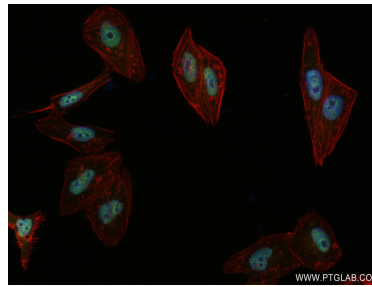
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

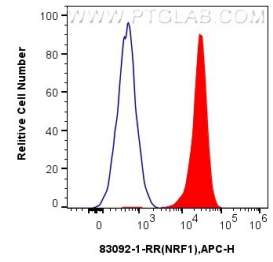
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83092-1-RR (NRF1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using NRF1/nuclear respiratory factor 1 antibody (83092-1-RR, Clone: 230394B1) at dilution of 1:300 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10<sup>6</sup> HEK-293T cells were intracellularly stained with 0.25 ug Anti-Human NRF1 (83092-1-RR, Clone:230394B1) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.