

For Research Use Only

NRF1/nuclear respiratory factor 1 Monoclonal antibody, PBS Only



Catalog Number: 66832-1-PBS

Basic Information

Catalog Number: 66832-1-PBS	GenBank Accession Number: BC016925	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 4899	CloneNo.: 3C2B8
Source: Mouse	UNIPROT ID: Q16656	
Isotype: IgG2b	Full Name: nuclear respiratory factor 1	
Immunogen Catalog Number: AG28149	Calculated MW: 522 aa, 56 kDa	
	Observed MW: 70 kDa	

Applications

Tested Applications:
WB, Indirect ELISA, IHC, IF, FC

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.

Storage Buffer:
PBS Only

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

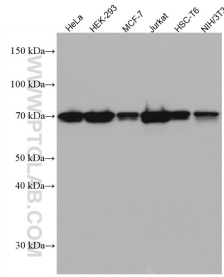
T: 4006900926

E: Proteintech-CN@ptglab.com

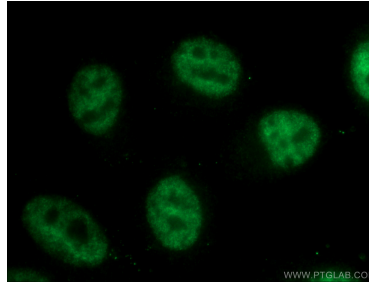
W: ptgcn.com

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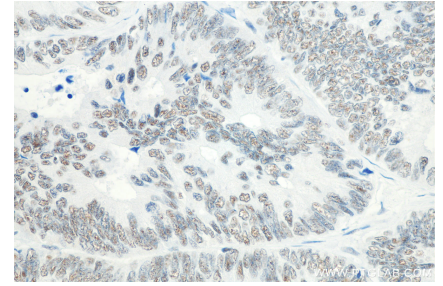
Selected Validation Data



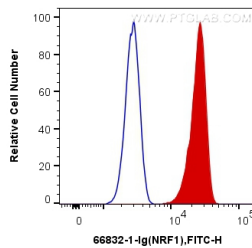
Various lysates were subjected to SDS PAGE followed by western blot with 66832-1-Ig (NRF1/nuclear respiratory factor 1) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66832-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 66832-1-Ig (NRF1/nuclear respiratory factor 1) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66832-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66832-1-Ig (NRF1/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.



1X10⁶ HepG2 cells were intracellularly stained with 0.2 ug Anti-Human NRF1/nuclear respiratory factor 1 (66832-1-Ig, 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.