

For Research Use Only

# NRF2, NFE2L2 Monoclonal ANTIBODY



Catalog Number: 66504-1-Ig

2 Publications

## Basic Information

Catalog Number:  
66504-1-Ig

Size:  
150 µg/150 µl

Source:  
Mouse

Isotype:  
IgG2b

Purification Method:  
Protein A purification

Immunogen Catalog Number:  
AC9469

GenBank Accession Number:  
BC011558

GeneID (NCBI):  
4780

Full Name:  
nuclear factor (erythroid-derived 2)-like 2

Calculated MW:  
605aa, 68 kDa

Observed MW:  
110 kDa

Recommended Dilutions:  
WB 1:1000-1:4000

## Applications

Tested Applications:  
WB, ELISA

Cited Applications:  
WB

Species Specificity:  
Human

Cited Species:  
mouse

Positive Controls:

WB : HeLa cells;

**Note: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

NRF2, also named as NFE2L2, belongs to the bZIP family and CNC subfamily. It is a transcription activator that binds to antioxidant response (ARE) elements in the promoter regions of target genes. NRF2 is important for the coordinated up-regulation of genes in response to oxidative stress. It may be involved in the transcriptional activation of genes of the beta-globin cluster by mediating enhancer activity of hypersensitive site 2 of the beta-globin locus control region. Nrf2 is a key player in the regulation of genes encoding for many antioxidative response enzymes. The expression of NRF2 may be induced under oxidative stress (PMID: 14567983). In lung cancer, Nrf2 activation in malignant cells has been associated with tumor progression and chemotherapy resistance (PMID: 20534738). Identifying patients with abnormal NRF2 expression may be important for selection for chemotherapy in NSCLC. The calculated molecular weight of Nrf2 protein is about 67 kDa, but Nrf2 protein can form a heterodimer with Maf G in cell nucleus and molecular weight of heterodimer is 110 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Ting Yi	30148822	Med Sci Monit	WB
Bingyu Shen	30950217	J Cell Mol Med	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

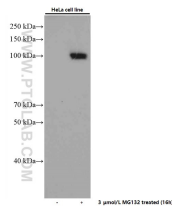
For technical support and original validation data for this product please contact:

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



Untreated and MG132 treated HeLa cells were subjected to SDS PAGE followed by western blot with 66504-1-Ig (NRF2, NFE2L2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours