

For Research Use Only

# NRF2, NFE2L2 Monoclonal antibody



Catalog Number: 66504-1-Ig

Featured Product

29 Publications

## Basic Information

<b>Catalog Number:</b> 66504-1-Ig	<b>GenBank Accession Number:</b> BC011558	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 4780	<b>CloneNo.:</b> 1E9E3
<b>Source:</b> Mouse	<b>Full Name:</b> nuclear factor (erythroid-derived 2)-like 2	<b>Recommended Dilutions:</b> WB 1:1000-1:4000
<b>Isotype:</b> IgG2b	<b>Calculated MW:</b> 605 aa, 68 kDa	
<b>Immunogen Catalog Number:</b> AG9469	<b>Observed MW:</b> 110 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells,
<b>Cited Applications:</b> CoIP, IF, IHC, WB	
<b>Species Specificity:</b> Human	
<b>Cited Species:</b> human, mouse, pig, rat	

## 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. As new investigators break into the emerging field of Nrf2 research, confusion regarding the correct migratory pattern of Nrf2 is causing doubts about the accuracy and reproducibility of published results. This letter provides solid evidence that the biologically relevant molecular weight of Nrf2 is ~95-110 kDa and not the predicted ~55-65 kDa based on its 2-kilobase open reading frame. The data discussed and presented here will hopefully lead to a uniform acceptance that future experiments and publications should be designed around detecting Nrf2 at the correct molecular weight of ~95-120 kDa (PMID: 22703241).

## Notable Publications

Author	Pubmed ID	Journal	Application
Jinliang Liu	34630847	Oxid Med Cell Longev	WB
Lei Zhao	34582963	Food Chem Toxicol	WB
Lupeng Chen	34603279		WB

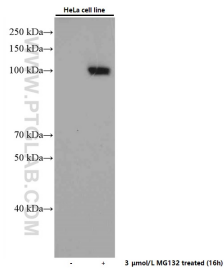
## Storage

**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

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  
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## 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.