

For Research Use Only

# Nrf2 Polyclonal antibody

Catalog Number: 33123-1-AP **3 Publications**



## Basic Information

<b>Catalog Number:</b> 33123-1-AP	<b>GenBank Accession Number:</b> NM_010902.4	<b>Purification Method:</b> Antigen affinity Purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 18024	<b>Recommended Dilutions:</b> WB: 1:500-1:2000 IF/ICC: 1:200-1:800
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> Q60795	
<b>Immunogen Catalog Number:</b> AG39859	<b>Full Name:</b> nuclear factor, erythroid derived 2, like 2	
	<b>Calculated MW:</b> 67 kDa	
	<b>Observed MW:</b> 110 kDa, 75 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b> WB : NIH/3T3 cells, NR8383 cells, rat liver tissue, mouse colon tissue, mouse liver tissue
<b>Cited Applications:</b> WB	<b>IF/ICC :</b> NIH/3T3 cells,
<b>Species Specificity:</b> mouse, rat	
<b>Cited Species:</b> mouse	

## 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 actually observed molecular weight of Nrf2 is about 70kDa and 95-110 kDa. (PMID: 22703241).

## Notable Publications

Author	Pubmed ID	Journal	Application
Caidong Liu	40839286	Neurochem Res	WB
Hejiao Zhang	40511521	Gut Microbes	WB
Qianqian Wang	40434160	Food Funct	WB

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

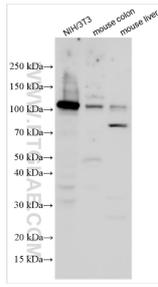
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E: Proteintech-CN@ptglab.com

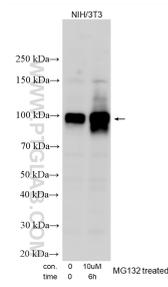
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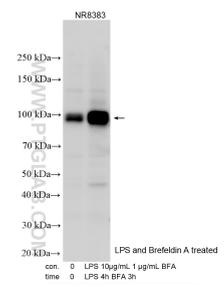
## Selected Validation Data



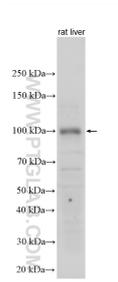
Various lysates were subjected to SDS PAGE followed by western blot with 33123-1-AP (Nrf2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



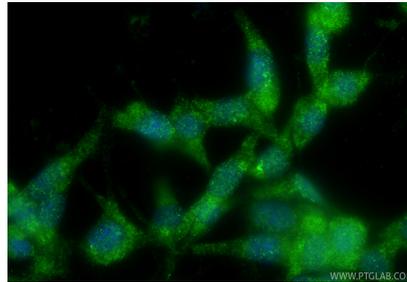
Various lysates were subjected to SDS PAGE followed by western blot with 33123-1-AP (Nrf2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 33123-1-AP (Nrf2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 33123-1-AP (Nrf2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using Nrf2 antibody (33123-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).