

# Nrf2 (R370G) Rabbit mAb

CatalogNo: AR0002 Recombinant FSS™

## •Main information

<b>Target</b>	Nrf2	IHC 1:1000-1:5000
<b>Reactivity</b>	Human,Mouse,Rat	WB 1:2000-1:10000
<b>Applications</b>	WB,IHC,IF,IP,ELISA	IF 1:200-1:1000
<b>MW (kDa)</b>	68kD (Calculated) 100kD (Observed)	ELISA 1:5000-1:20000 IP 1:50-1:200
<b>Host Species</b>	Rabbit	Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0 (Cat#RH0011)
<b>Isotype</b>	IgG,Kappa	

## •Recommended Dilutions

<b>Specificity</b>	Endogenous
<b>Storage</b>	-15°C to -25°C/1 year(Do not lower than -25°C, Ship by ice bag)
<b>Formulation</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Purification</b>	Protein A
<b>Clonality</b>	Monoclonal
<b>Clone Number</b>	R370G

## •Detailed information

## •Target Information

**Gene name** NFE2L2 NRF2

**Protein Name** Nuclear factor erythroid 2-related factor 2 (NF-E2-related factor 2) (NFE2-related factor 2) (HEBP1) (Nuclear factor, erythroid derived 2, like 2)

Organism	Gene ID	UniProt ID
Human	<a href="#">4780</a> ;	<a href="#">Q16236</a> ;
Mouse	<a href="#">18024</a> ;	<a href="#">Q60795</a> ;
Rat	<a href="#">83619</a> ;	<a href="#">O54968</a> ;

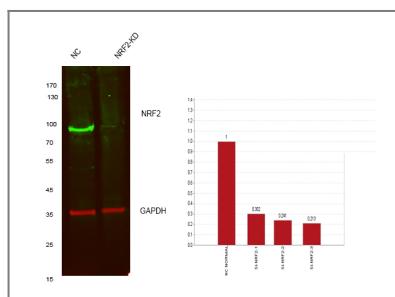
**Cellular Localization** Cytoplasmic, Nuclear

**Tissue specificity** Widely expressed. Highest expression in adult muscle, kidney, lung, liver and in fetal muscle.

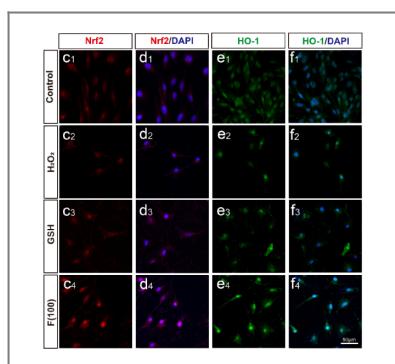
## Function

Domain: Acidic activation domain in the N-terminus, and DNA binding domain in the C-terminus., Function: Transcription activator that binds to antioxidant response (ARE) elements in the promoter regions of target genes. Important for the coordinated up-regulation of genes in response to oxidative stress. 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., PTM: Phosphorylation of Ser-40 by PKC in response to oxidative stress dissociates NFE2L2 from its cytoplasmic inhibitor KEAP1, promoting its translocation into the nucleus., similarity: Belongs to the bZIP family., similarity: Belongs to the bZIP family. CNC subfamily., similarity: Contains 1 bZIP domain., subcellular location: Cytosolic under unstressed conditions, translocates into the nucleus upon induction by electrophilic agents., subunit: Heterodimer. May bind DNA with an unknown protein. Interacts with KEAP1. Interacts via its leucine-zipper domain with the coiled-coil domain of PMF1., tissue specificity: Widely expressed. Highest expression in adult muscle, kidney, lung, liver and in fetal muscle.,

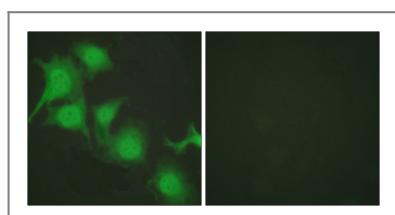
## •Validation Data



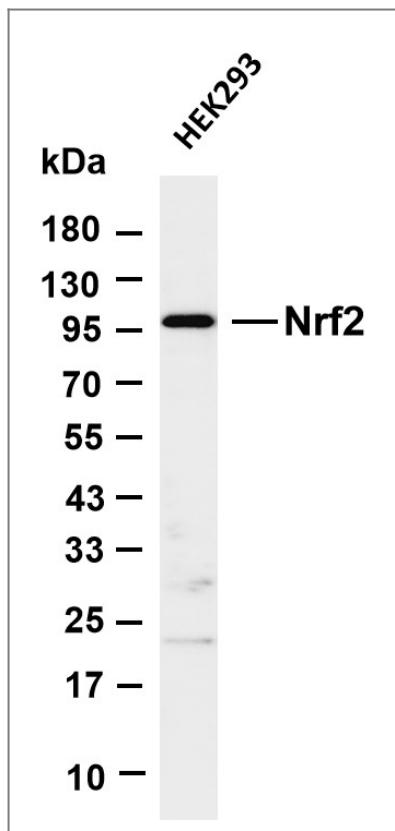
Western blot analysis of lysates from 1) HeLa cell, 2) HeLa cells knockdown by NFE2L2-siRNA  
(F: CAUUGAUGUUUCUGAUCUATT, R: UAGAUCAGAAACAUCAAUGTT), (Green) primary antibody was diluted at 1:1000, 4°C over night, Dylight 800 secondary antibody was diluted at 1:10000, 37°C 1hour. (Red) GAPDH Monoclonal Antibody antibody was diluted at 1:5000 as loading control, 4°C over night, Dylight 680 secondary antibody was diluted at 1:10000, 37°C 1hour.



Fullerol rescues the light-induced retinal damage by modulating Müller glia cell fate. Redox Biology Haiwei Xu MIO-M1 cell



Immunofluorescence analysis of HUVEC cells, using Nrf2 Antibody. The picture on the right is blocked with the synthesized peptide.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Nrf2 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HEK293 Predicted band size: 68kDa Observed band size: 100kDa

## •Contact information

Orders: order@lamarck.cn  
Support: support@lamarck.cn  
Telephone: 400-801-6722  
Website: <http://www.Lamarck.com>  
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product information:  
**Nrf2 (R370G) Rabbit  
mAb**

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