

Nrf2 (R370G) Rabbit mAb

CatalogNo: AR0002 Recombinant FSS™

•Main information

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

•Recommended Dilutions

Specificity	Endogenous
Storage	-15°C to -25°C/1 year(Do not lower than -25°C, Ship by ice bag)
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Purification	Protein A
Clonality	Monoclonal
Clone Number	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	4780 ;	Q16236 ;
Mouse	18024 ;	Q60795 ;
Rat	83619 ;	O54968 ;

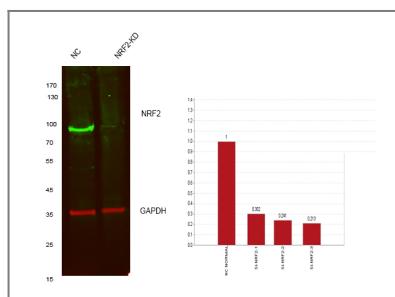
Cellular Localization Cytoplasmic, Nuclear

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

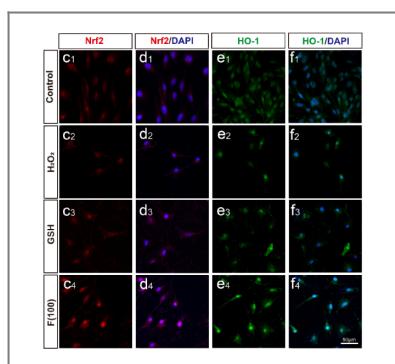
Function

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.,

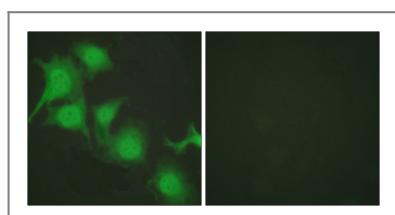
•Validation Data



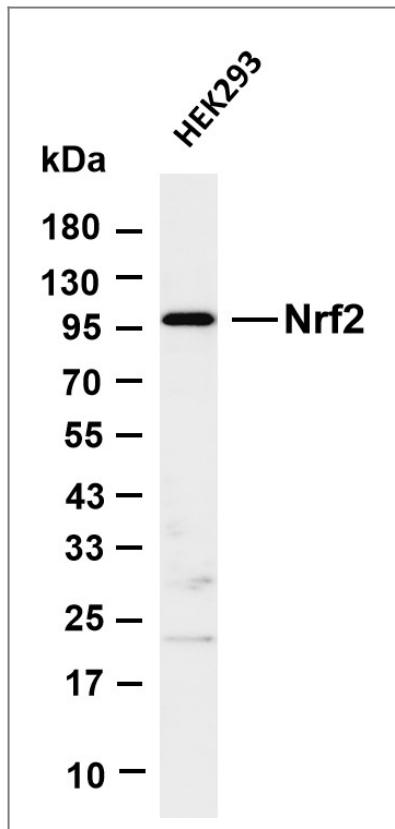
Western blot analysis of lysates from 1) HeLa cell, 2) HeLa cells knockdown by NFE2L2-siRNA (F: CAUUGAUGUUUCUGAUCUATT, R: UAGAUCAGAAACAUCAAUGTT), (Green) primary antibody was diluted at 1:1000, 4°C over night, Dylight 800 secondary antibody was diluted at 1:10000, 37°C 1 hour. (Red) GAPDH Monoclonal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



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

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mAb**

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