

Nrf2 Polyclonal Antibody

CatalogNo: YT3189

Orthogonal Validated KD/KO Validated 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 68kD (Calculated)
- 90-100kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-1:2000**IHC 1:100-1:300****IF 1:200-1:1000****ELISA 1:40000****Not yet tested in other applications.**

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** 1 mg/ml

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human Nrf2. AA range:556-605**Specificity** Nrf2 Polyclonal Antibody detects endogenous levels of Nrf2 protein.

Target Information

Gene name NFE2L2

Protein Name Nuclear factor erythroid 2-related factor 2

Organism	Gene ID	UniProt ID
Human	4780 ;	Q16236 ;
Mouse	18024 ;	Q60795 ;
Rat	83619 ;	O54968 ;

Cellular Localization

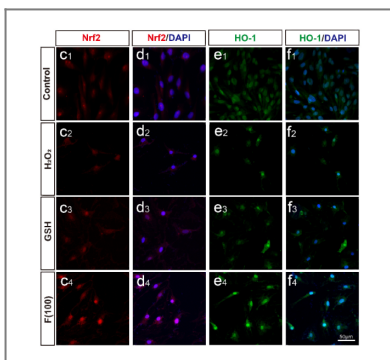
Cytoplasm, cytosol . Nucleus . Cytosolic under unstressed conditions: ubiquitinated and degraded by the BCR(KEAP1) E3 ubiquitin ligase complex (PubMed:15601839, PubMed:21196497). Translocates into the nucleus upon induction by electrophilic agents that inactivate the BCR(KEAP1) E3 ubiquitin ligase complex (PubMed:21196497). .

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

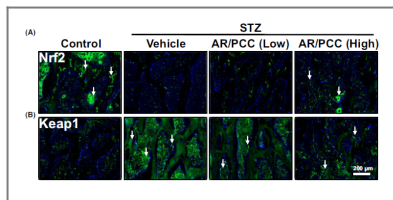
Function

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.,

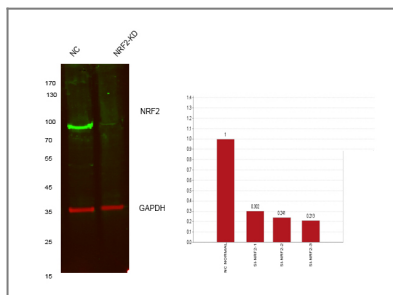
Validation Data



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

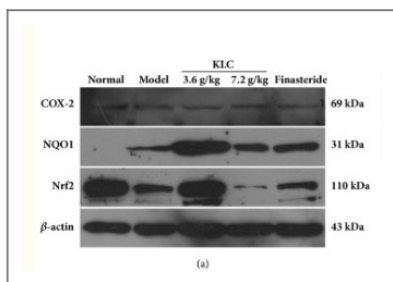


AR/PCC herb pair inhibits osteoblast pyroptosis to alleviate diabetes-related osteoporosis by activating Nrf2/Keap1 pathway. *JOURNAL OF CELLULAR AND MOLECULAR MEDICINE* Hongfeng Ruan IF Rat 1:500 vertebral body

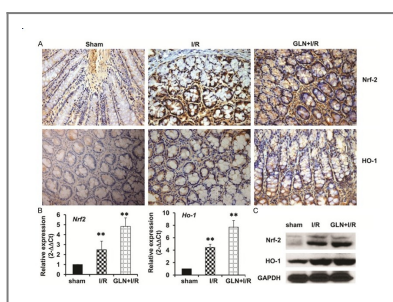


Western blot analysis of lysates from 1) HeLa cell, 2) HeLa cells knockdown by Nrf2-siRNA

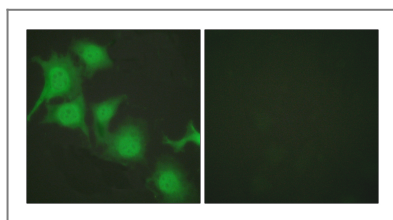
(F:CAUUGAUGUUUCUGAUCUATT, R:UAGAUCAGAAACAUCUAAUGTT), (Green) primary antibody was diluted at 1:1000, 4° over night, Dylight 800 secondary antibody (Immunoway:RS23920) was diluted at 1:10000, 37° 1 hour. (Red) GAPDH Monoclonal Antibody (5B7) (Immunoway:YM3029) antibody was diluted at 1:5000 as loading control, 4° over night, Dylight 680 secondary antibody (Immunoway:RS23710) was diluted at 1:10000, 37° 1 hour.



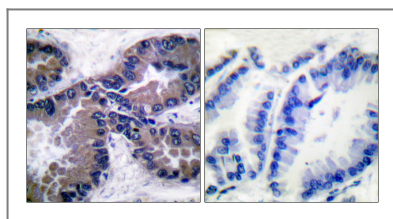
Zhang, Ling, et al. "Anti-Inflammatory and Antioxidant Effects of Kelong-Capsule on Testosterone-Induced Benign Prostatic Hyperplasia in Rats." *Evidence-Based Complementary and Alternative Medicine* 2018 (2018).



Wang, Ai-Li, et al. "Glutamine ameliorates intestinal ischemia-reperfusion injury in rats by activating the Nrf2/Are signaling pathway." *International journal of clinical and experimental pathology* 8.7 (2015): 7896.



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



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using Nrf2 Antibody. The picture on the right is blocked with the synthesized peptide.

Contact information

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Antibody**

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