Nrf2 Rabbit pAb

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

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

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.

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 NRF2

Protein Name Nuclear factor erythroid 2-related factor 2

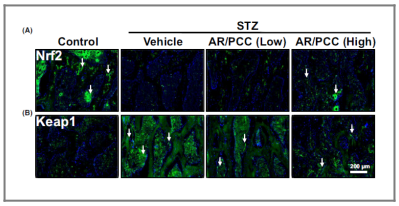
Organism	Gene ID	UniProt ID
Human	4780;	Q16236;
Mouse	18024;	Q60795;
Rat	83619;	O54968;

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) . .

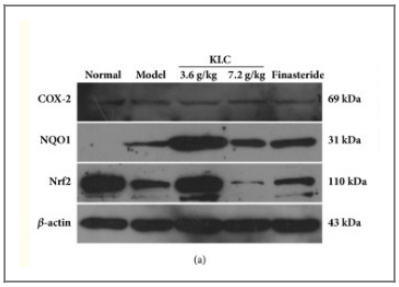
Tissue specificity Widely expressed. Highest expression in adult muscle , kidney , lung , liver and in fetal muscle.

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. ,

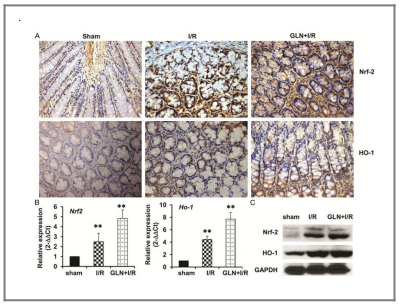
Validation Data



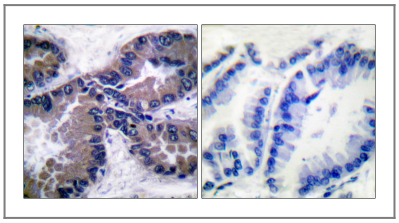
AR/PCC herb pair inhibits osteoblast pyroptosis to alleviate diabetes-related osteoporosis by activating Nrf2/Keap1 pathway. JOURNAL OF CELLULAR AND MOLECULAR MEDICINE Hongfeng Ruan IF Rat 1:500 vertebral body



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.



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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Please scan the QR code to access additional product information:
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