

Nrf2 (PTR2557) Mouse mAb

Catalog No: YM4294

Reactivity: Human (predicted: Mouse; Rat)

Applications: WB;ELISA

Target: Nrf2

Fields: >>Protein processing in endoplasmic reticulum;>>Parkinson

disease;>>Pathways in cancer;>>Chemical carcinogenesis - reactive oxygen species;>>Hepatocellular carcinoma;>>Lipid and atherosclerosis;>>Fluid shear

stress and atherosclerosis

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)

Human Gene Id: 4780

Human Swiss Prot Q16236

No:

Mouse Gene Id: 18024

Mouse Swiss Prot

Q60795

No:

Rat Gene ld: 83619

Rat Swiss Prot No: 054968

Immunogen: Synthesized peptide derived from human Nrf2 AA range: 300-400

Specificity: This antibody detects endogenous levels of Nrf2 at Human, Mouse,Rat

Formulation : PBS, pH7.4, 50% glycerol, 0.03%Proclin 300

Source: Monoclonal, Mouse IgG, Kappa

1/3



Dilution: WB 1:500-2000,ELISA 1:5000-20000

Purification: Protein G

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 75-100kD

Location:

Background: nuclear factor, erythroid 2 like 2(NFE2L2) Homo sapiens This gene encodes a

transcription factor which is a member of a small family of basic leucine zipper (bZIP) proteins. The encoded transcription factor regulates genes which contain antioxidant response elements (ARE) in their promoters; many of these genes encode proteins involved in response to injury and inflammation which includes the production of free radicals. Multiple transcript variants encoding different isoforms have been characterized for this gene. [provided by RefSeq, Sep 2015],

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 electr

Subcellular Cytoplasm, cytosol . Nucleus . Cytosolic under unstressed conditions:

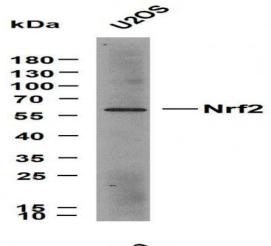
ubiquitinated and degraded by the BCR(KEAP1) E3 ubiquitin ligase complex (PubMed:15601839, PubMed:21196497). Translocates into the nucleus upon induction by electrophilic agents that inactivate the BCR(KEAP1) E3 ubiquitin

ligase complex (PubMed:21196497). .

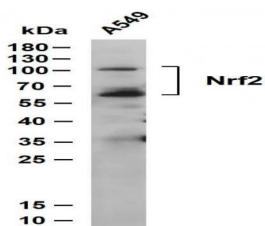
Expression: Widely expressed. Highest expression in adult muscle, kidney, lung, liver and in

fetal muscle.

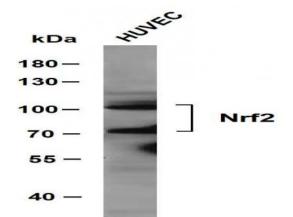
Products Images



Whole cell lysates of U2OS were separated by 12% SDS-PAGE, and the membrane was blotted with Nrf2 antibody. The HRP-conjugated anti-Mouse IgG antibody was used to detect the antibody. Lane 1: U2OS Predicted band size: 68kDa Observed band size: 65kDa



Whole cell lysates were separated by 12% SDS-PAGE, and the membrane was blotted with anti-Nrf2 antibody. The HRP-conjugated anti-Mouse IgG antibody was used to detect the antibody. Lane 1: A549 Predicted band size: 68kDa Observed band size: 100,70kDa



Whole cell lysates were separated by 8% SDS-PAGE, and the membrane was blotted with anti-Nrf2 antibody. The HRP-conjugated anti-Mouse IgG antibody was used to detect the antibody. Lane 1: HUVEC Predicted band size: 68kDa Observed band size: 100,70kDa