

Nrf2 (PTR2557) Mouse mAb

CatalogNo: YM4294

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat,

Applications

- WB, IF, ELISA

MW

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

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-2000

IF 1:100-500

ELISA 1:1000-5000

Storage

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

Formulation PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Basic Information

Clonality Monoclonal

Clone Number PTR2557

Immunogen Information

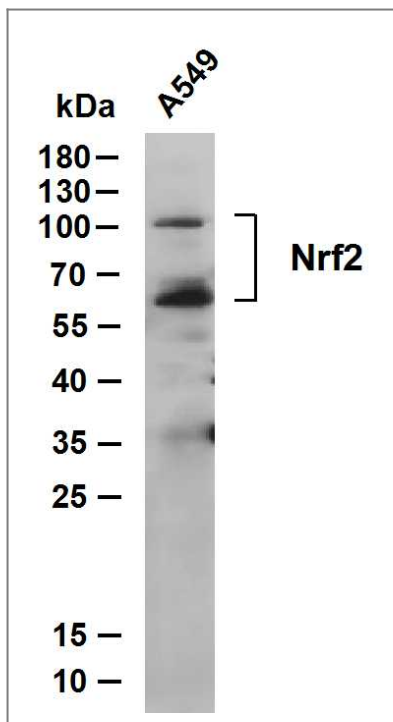
Immunogen Synthesized peptide derived from human Nrf2 AA range: 300-400

Specificity This antibody detects endogenous levels of Nrf2 protein.

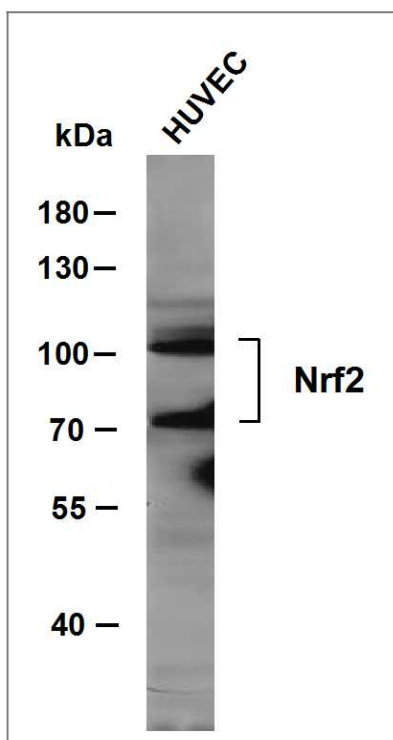
| Target Information

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



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



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

| Contact information

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Please scan the QR code
 to access additional
 product information:
Nrf2 (PTR2557)
Mouse mAb

