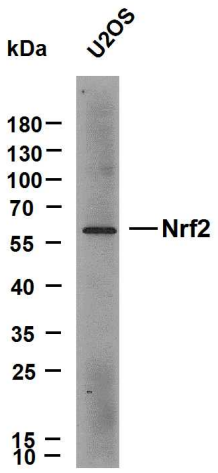
Nrf2 (PTR2557) Mouse mAb

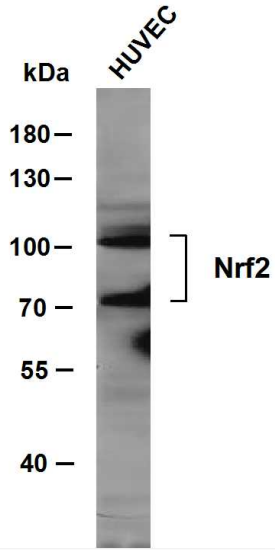
Catalog No	YP-Ab-17147
Isotype	IgG
Reactivity	Human, Mouse,Rat
Applications	WB,ELISA
Gene Name	NFE2L2 NRF2
Protein Name	Nuclear factor erythroid 2-related factor 2 (NF-E2-related factor 2) (NFE2-related factor 2) (HEBP1) (Nuclear factor, erythroid derived 2, like 2)
Immunogen	Synthesized peptide derived from human Nrf2
Specificity	This antibody detects endogenous levels of Nrf2 at Human, Mouse,Rat
Formulation	PBS, pH7.4, 50% glycerol, 0.03%Proclin 300
Source	Mouse,monoclonal:IgM, Kappa
Purification	Protein G
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Nuclear factor erythroid 2-related factor 2 (NF-E2-related factor 2) (NFE2-related factor 2) (HEBP1) (Nuclear factor, erythroid derived 2, like 2)
Observed Band	75-100kD
Cell Pathway	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 electr

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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

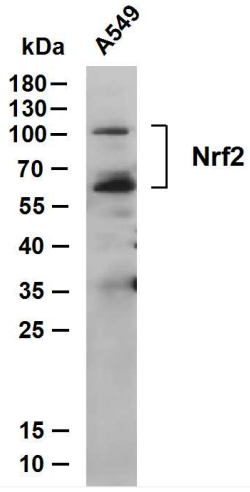
Products Images



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 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



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