



Nrf1 Rabbit mAb

Catalog No	YP-rAb-17603
Isotype	IgG
Reactivity	Human,Mouse,Rat,Bovine
Applications	WB,IHC,IF,IP,ELISA
Gene Name	NRF1
Protein Name	Nuclear respiratory factor 1
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; IP 1:50-1:200; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	NRF1 ; Nuclear respiratory factor 1 ; NRF-1 ; Alpha palindromic-binding protein ; Alpha-pal
Observed Band	68kD
Calculated Molecular Weight	54kD
Cell Pathway	Nucleus
Tissue Specificity	Ubiquitously expressed with strongest expression in skeletal muscle.
Function	Transcription factor that activates the expression of the EIF2S1 (EIF2-alpha) gene. Links the transcriptional modulation of key metabolic genes to cellular growth and development. Implicated in the control of nuclear genes required for respiration, heme biosynthesis, and mitochondrial DNA transcription and replication.,PTM:Phosphorylation enhances DNA binding.,similarity:Belongs to the NRF1/Ewg family.,subunit:Homodimer. Binds DNA as a dimer. Interacts with PPRC1.,tissue specificity:Ubiquitously expressed with strongest expression in skeletal muscle.,
Background	This gene encodes a protein that homodimerizes and functions as a transcription factor which activates the expression of some key metabolic genes regulating cellular growth and nuclear genes required for respiration, heme biosynthesis, and mitochondrial DNA transcription and replication. The protein has also been

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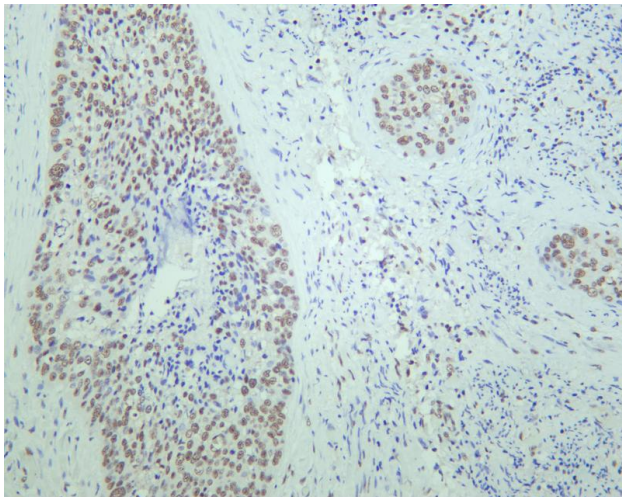
associated with the regulation of neurite outgrowth. Alternative splicing results in multiple transcript variants. Confusion has occurred in bibliographic databases due to the shared symbol of NRF1 for this gene and for "nuclear factor (erythroid-derived 2)-like 1" which has an official symbol of NFE2L1. [provided by RefSeq, May 2014],

matters needing attention

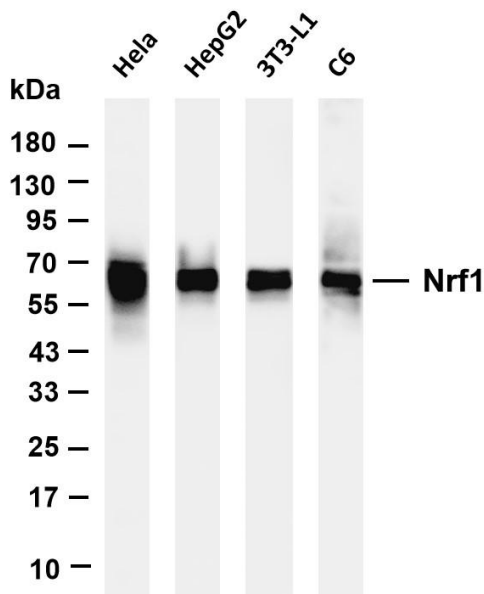
Avoid repeated freezing and thawing!

Usage suggestions

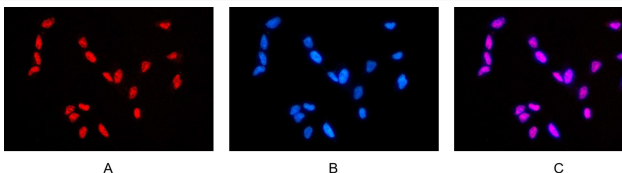
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Human cervical carcinoma was stained with anti-Nrf1 rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Nrf1 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Hela Lane 2: HepG2 Lane 3: 3T3-L1 Lane 4: C6 Predicted band size: 54kDa Observed band size: 68kDa



Immunofluorescence analysis of HEK293. Picture A: Nrf1 antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B

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