



NRF-1 Polyclonal Antibody

Catalog No	YP-Ab-01915
Isotype	IgG
Reactivity	Human;Mouse;Rat;Bovine
Applications	WB;ELISA
Gene Name	NRF1
Immunogen	The antiserum was produced against synthesized peptide derived from human NRF1. AA range:221-270
Specificity	NRF-1 Polyclonal Antibody detects endogenous levels of NRF-1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	NRF-1;NRF1;Nuclear respiratory factor 1;Alpha palindromic-binding protein; Alpha-pal
Observed Band	54kD
Calculated Molecular Weight	54kD
Cell Pathway	Nucleus.
Tissue Specificity	Ubiquitously expressed with strongest expression in skeletal muscle.
Function	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 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],

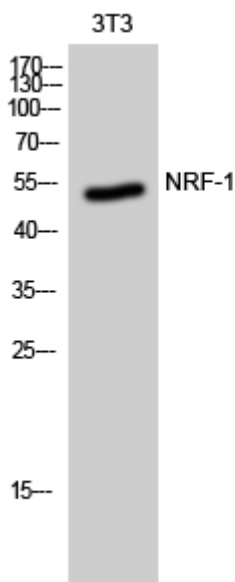
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

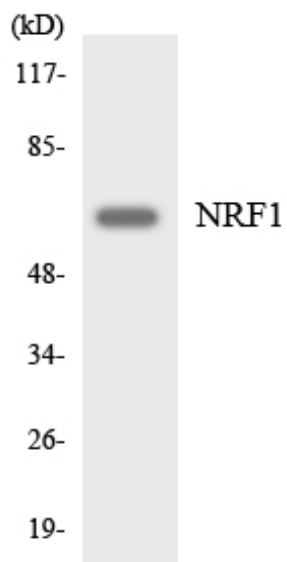
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of 3T3 cells using NRF-1 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).

Western blot analysis of NRF1 Antibody. The lane on the right is blocked with the NRF1 peptide.



Western blot analysis of the lysates from HeLa cells using NRF1 antibody.