

**NRF1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14535c****Specification**

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**NRF1 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q16656</a>
Other Accession	<a href="#">Q9WU00</a> , <a href="#">Q90X44</a> , <a href="#">NP_005002.3</a> , <a href="#">NP_001035199.1</a>
Reactivity	Human
Predicted	Zebrafish, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	53541
Antigen Region	226-255

**NRF1 Antibody (Center) - Additional Information****Gene ID** 4899**Other Names**

Nuclear respiratory factor 1, NRF-1, Alpha palindromic-binding protein, Alpha-pal, NRF1

**Target/Specificity**

This NRF1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 226-255 amino acids from the Central region of human NRF1.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

NRF1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**NRF1 Antibody (Center) - Protein Information****Name** NRF1

**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.

**Cellular Location**

Nucleus.

**Tissue Location**

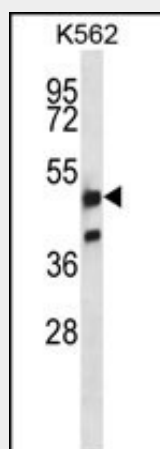
Ubiquitously expressed with strongest expression in skeletal muscle

**NRF1 Antibody (Center) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**NRF1 Antibody (Center) - Images**



NRF1 Antibody (Center) (Cat. #AP14535c) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the NRF1 antibody detected the NRF1 protein (arrow).

**NRF1 Antibody (Center) - 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. Alternate transcriptional splice variants, which encode the same protein, have been characterized. Additional variants encoding different protein isoforms have been described but they have not

been fully characterized. 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.

#### **NRF1 Antibody (Center) - References**

Gonen, N., et al. J. Biol. Chem. 285(44):33602-33613(2010)  
Zhang, Y., et al. Biochem. J. 430(3):497-510(2010)  
Shao, D., et al. Mitochondrion 10(5):516-527(2010)  
Adam, T., et al. Biochem. Biophys. Res. Commun. 398(3):495-499(2010)  
Spelbrink, J.N., et al. Hum. Mol. Genet. 4(9):1591-1596(1995)