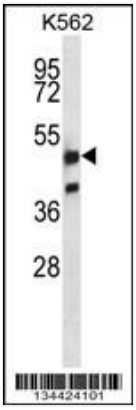
NRF1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NRF1, Polyclonal Antibody
Full Product Name	NRF1, ID (NRF1, Nuclear respiratory factor 1, Alpha palindromic-binding protein) (AP)
Product Gene Name	anti-NRF1 antibody
Product Synonym Names	NRF1; Nuclear respiratory factor 1; Alpha palindromic-binding protein
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	55,674 Da
OMIM	600879
3D Structure	ModBase 3D Structure for Q16656
Immunogen	NRF1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 225-255 amino acids from the Central region of human NRF1.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-NRF1 antibody	Antibodies; Binding Proteins
Applications Tested/Suitable for anti-NRF1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-NRF1 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-NRF1 antibody	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.
Product References and Citations for anti-NRF1 antibody	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).

Other Notes	Small volumes of anti-NRF1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NRF1 purchase	MBS6326754 is an antibody targeting NRF1. Also known as NRF1, ID (NRF1, Nuclear respiratory factor 1, Alpha palindromic-binding protein) (AP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-NRF1 antibody
NRF1 Antibody (Center) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the NRF1 antibody detected the NRF1 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NRF1. It may not necessarily be applicable to this product.

NCBI GI #	93141037
NCBI GeneID	4899
NCBI Accession #	NP_005002.3
NCBI Related Accession #	NP_001035199.1
UniProt Primary Accession #	Q16656
UniProt Secondary Accession #	Q15305; Q96AN2; A8K4C6; B4DDV6
UniProt Related Accession #	Q16656
GenBank Nucleotide #	NM_005011.4
NCBI Official Full Name	nuclear respiratory factor 1 isoform 1
NCBI Official Synonym Full Names	nuclear respiratory factor 1
NCBI Official Symbol	NRF1
NCBI Official Synonym Symbols	ALPHA-PAL
UniProt Protein Name	Nuclear respiratory factor 1
UniProt Synonym Protein Names	Alpha palindromic-binding protein
Protein Family	Nuclear respiratory factor
UniProt Gene Name	NRF1
UniProt Synonym Gene Names	NRF-1; Alpha-pal
UniProt Entry Name	NRF1_HUMAN
NCBI Protein Information	nuclear respiratory factor 1; alpha palindromic-binding protein

NCBI Summary for NRF1	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]
UniProt Comments for NRF1	NRF1: 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. Belongs to the NRF1/Ewg family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 7q32 Cellular Component: nucleoplasm; cytoplasm Biological Process: regulation of transcription from RNA polymerase II promoter; mitochondrion organization and biogenesis; organ regeneration; generation of precursor metabolites and energy; transcription, DNA-dependent; response to folic acid; organelle organization and biogenesis; response to hypoxia; positive regulation of transcription from RNA polymerase II promoter; response to lipopolysaccharide; cellular lipid metabolic process; response to electrical stimulus; response to estradiol stimulus
Research Articles on NRF1	**1.** Nrf1 physically interacts with androgen receptor and enhances it's DNA-binding activity, suggesting that the p65-Nrf1 isoform is a potential androgen receptor coactivator.
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