

NRF1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP14535c

Specification

NRF1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession [Q16656](#)

NRF1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 4899

Other Names

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NRF1 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NRF1 Antibody (Center) Blocking Peptide - Images**NRF1 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)