10320 Camino Santa Fe, Suite G
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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

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NRF1 Antibody (Center) Blocking Peptide - Images

NRF1 Antibody (Center) Blocking Peptide - Background

This gene encodes a protein that homodimerizes andfunctions as a transcription factor which activates the expressionof some key metabolic genes regulating cellular growth and nucleargenes required for respiration, heme biosynthesis, andmitochondrial DNA transcription and replication. The protein hasalso been associated with the regulation of neurite outgrowth.Alternate transcriptional splice variants, which encode the sameprotein, have been characterized. Additional variants encodingdifferent protein isoforms have been described but they have notbeen fully characterized. Confusion has occurred in bibliographicdatabases due to the shared symbol of NRF1 for this gene and for'nuclear factor (erythroid-derived 2)-like 1' which has an officialsymbol 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)