Nrf2 protein

E20-80126

Catalog Number:E20-80126

Formulation:0.15 M Phosphate buffered saline, pH 7.4

Storage: Up to 1 year when aliquoted and stored at -20 to -80 °C

Gene Name:NFE2L2 NRF2Sequence:Amino acid: 11-130, with his-MBP tag

Background:domain:Acidic activation domain in the N-terminus, and DNA binding domain in the C-terminus.,function:Transcription activator that binds to antioxidant response (ARE) elements in the promoter regions of target genes. Important for the coordinated up-regulation of genes in response to oxidative stress. May be involved in the transcriptional activation of genes of the beta-globin cluster by mediating enhancer activity of hypersensitive site 2 of the beta-globin locus control region.,PTM:Phosphorylation of Ser-40 by PKC in response to oxidative stress dissociates NFE2L2 from its cytoplasmic inhibitor KEAP1, promoting its translocation into the nucleus.,similarity:Belongs to the bZIP family.,similarity:Belongs to the bZIP family. CNC subfamily.,similarity:Contains 1 bZIP domain.,subcellular location:Cytosolic under unstressed conditions, translocates into the nucleus upon induction by electrophilic agents.,subunit:Heterodimer. May bind DNA with an unknown protein. Interacts with KEAP1. Interacts via its leucine-zipper domain with the coiled-coil domain of PMF1.,tissue specificity:Widely expressed. Highest expression in adult muscle, kidney, lung, liver and in fetal muscle.,

Protein Name: Nrf2 protein

Other Name:NFE2L2, NRF2, NFE2 like bZIP transcription factor 2, Nuclear factor erythroid 2-related factor 2 (NF-E2-related factor 2) (NFE2-related factor 2) (HEBP1) (Nuclear factor, erythroid derived 2, like 2)

Sequence: Amino acid: 11-130, with his-MBP tag.LPSQQDMDLIDILWRQDIDLGVSREVFDFSQRRKEYELEKQKKLEKERQEQLQKEQEKAFFAQLQLDEETGEFLPIQPAQHIQSETSGSANYSQVAHIPKSDALYFDDCM

Human Gene Id:4780

Human Swiss Prot No:Q16236

Mouse Swiss Prot No:Q60795

Concentration:SDS-PAGE >90%

Expression:E. coli

Vector and tag:C-His tag

Solubility: Soluble

Function:transcription, transcription, DNA-dependent, regulation of transcription, DNA-dependent, transcription from RNA polymerase II promoter, ER-nuclear signaling pathway, response to unfolded protein, positive regulation of biosynthetic process, response to organic substance, positive regulation of macromolecule biosynthetic process,positive regulation of macromolecule metabolic process, positive regulation of gene expression, endoplasmic reticulum unfolded protein response, positive regulation of cellular biosynthetic process, RNA biosynthetic process, cellular response to stress, cellular response to unfolded protein, response to endoplasmic reticulum stress, regulation of transcription, positive regulation of transcription, DNA-dependent, positive regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process.

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