

Recombinant Human EIF2AK2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. EIF2AK2-2983H Lot. No. (See product label)

SPECIFICATION

Product Overview

EIF2AK2 MS Standard C13 and N15-labeled recombinant protein (NP_001129123) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

The protein encoded by this gene is a serine/threonine protein kinase that is activated by autophosphorylation after binding to dsRNA. The activated form of the encoded protein can phosphorylate translation initiation factor EIF2S1, which in turn inhibits protein synthesis. This protein is also activated by manganese ions and heparin. Three transcript variants encoding two different isoforms have been found for this gene.

Molecular Mass

62.1 kDa

AA Sequence

MAGDLSAGFFMEELNTYRQKQGCVLKYQELPNSGPPHRRFTFQVIIDGREFPEGE
 GRSKKEAKNAAAKLAVEILNKEKKA VSPLLLTTTNSSEGLSMGNYIGLINRIAQKRLT
 VNYEQCASGVHGPFGFHYKCKMGQKEYSIGTGSTKQEAKQLAAKLAYLQILSEETS
 VKSDYLSSGSFATTCESQSNLVTSTLASESSSEGDFSADTSEINSNSDSLNSSLL
 MNGLRNNQRKAKRSLAPRFDLPDMKETKYTVDKRFGMDFKIEELIGSGGFGQVFKA
 KHRIDGKTYVIKRVKYNNEKAEREVKALAKLDHVNIVHYNGCWDGFDYDPETSDDSL
 ESSDYDPENSKNSSRSKTKCLFIQMEFCDKGTLEQWIEKRRGEKLDKVLALLELFEQI

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TKGVDYIHSKCLIHRDLKPSNIFLVDTKQVKIGDFGLVTSKNDGKRTRSKGTLRYMS
 PEQISSQDYGKEVDLYALGLILAELLHVCDTAFETSKFFTDLRDGIISDIFDKKEKTLLQ
 KLLSKKPEDRPNTSEILRTLTVWKKSPKNERHTCTRTRPLEQKLISEEDLAANDILD
 YKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name EIF2AK2 eukaryotic translation initiation factor 2-alpha kinase 2 [Homo sapiens (human)]

Official Symbol EIF2AK2

Synonyms EIF2AK2; eukaryotic translation initiation factor 2-alpha kinase 2; PRKR, protein kinase, interferon inducible double stranded RNA dependent; interferon-induced, double-stranded RNA-activated protein kinase; EIF2AK1; PKR; p68 kinase; eIF-2A protein kinase 2; P1/eIF-2A protein kinase; tyrosine-protein kinase EIF2AK2; interferon-inducible eIF2alpha kinase; double stranded RNA activated protein kinase; protein kinase, interferon-inducible double stranded RNA dependent; PRKR; MGC126524;

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Gene ID 5610

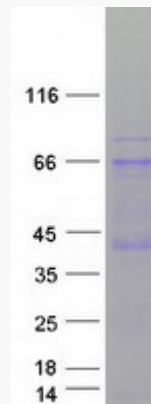
mRNA Refseq NM_001135651

Protein Refseq NP_001129123

MIM 176871

UniProt ID P19525

SDS-PAGE



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