

Recombinant Full Length Human EEF2K Protein, GST-tagged

Cat. No. EEF2K-4219HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human EEF2K full-length ORF (AAH32665, 1 a.a. - 725 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	725 amino acids
Description	This gene encodes a highly conserved protein kinase in the calmodulin-mediated signaling pathway that links activation of cell surface receptors to cell division. This kinase is involved in the regulation of protein synthesis. It phosphorylates eukaryotic elongation factor 2 (EEF2) and thus inhibits the EEF2 function. The activity of this kinase is increased in many cancers and may be a valid target for anti-cancer treatment. [provided by RefSeq, Jul 2008]
Molecular Mass	105.49 kDa
AA Sequence	MADEDLIFRLEGVDGGQSPRAGRDGSDGSDDEEGYFICPITDDPSSNQNVNSKV NKYYSNLTKSERYSSSGSPANSFHFKEAWKHAIQKAKHMPDPWAEFHLEDIATERA TRHRYNAVTEGEWLDDVLIKMASQPFGRGAMRECFRTKKLSNFLHAQQWKGASNY VAKRYIEPVDRDVYFEDVRLQMEAKLWGEEYNRHKPPKQVDIMQMCIELKDRPGK PLFHLEHYIEGKYIKYNSNSGFVRDDNIRLTPQAFSHFTFERSGHQLIVVDIQGVGDL YTDQPQIHTETGTDFGDGNLGVGMALFFYSHACNRICESMGLAPFDLSPRERDAVN QNTKLLQSAKTILRGTEEKCGSPRVRTLSGSRPPLLRPLSENSGDENMSDVTFDSLP

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SSPSSATPHSQKLDHLHWPVFSDLDNMA SRDHDHLDNHRESENSGDSGYPSEKR
 GELDDPEPREHGHSSYSNRKYESDEDSLGS SGRVCVEKWNLNSSLRLHLPRA SAVA
 LEVQRLNALDLEKKIGKSILGKVHLAMVRYHEGGRFCEKGEEWDQESAVFHLEHAA
 NLGELEAIVGLGLMYSQ LPHHILADVSLKET EENKTKGFDYLLKAAEAGDRQSMILVA
 RAFDSGQNLSPDRCQDWLEALHWYNTALEMTDCDEGGEYDGMQDEPRYMMLAR
 EAEMLFTGGYGLEKDPQRSGDLYTQA AEAAMEAMKGR LANQYYQKAE EAWAQME
 E

Applications

Kinase Assay
 Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name **EEF2K eukaryotic elongation factor-2 kinase [Homo sapiens]**

Official Symbol **EEF2K**

Synonyms EEF2K; eukaryotic elongation factor-2 kinase; eukaryotic elongation factor 2 kinase; eEF 2K; eEF-2 kinase; elongation factor-2 kinase; eukaryotic elongation factor 2 kinase; calmodulin-dependent protein kinase III; calcium/calmodulin-dependent eukaryotic elongation factor 2 kinase; calcium/calmodulin-dependent eukaryotic elongation factor-2 kinase; eEF-2K; HSU93850; MGC45041;

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Gene ID	29904
mRNA Refseq	NM_013302
Protein Refseq	NP_037434
MIM	606968
UniProt ID	O00418

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