Recombinant Human EEF2K 293 Cell Lysate

Cat. No. EEF2K-6711HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for eukaryotic elongation factor-2 kinase (EEF2K) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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; eukaroytic 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;
Gene ID	29904
mRNA Refseq	NM_013302
Protein Refseq	NP_037434
MIM	606968
UniProt ID	O00418
Chromosome Location	16p12
Pathway	IRS-mediated signalling, organism-specific biosystem; IRS-related events, organism-specific biosystem; Insulin receptor signalling cascade, organism-specific biosystem;

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	PI3K Cascade, organism-specific biosystem; PKB-mediated events, organism-specific biosystem; S6K1 signalling, organism-specific biosystem; S6K1-mediated signalling, organism-specific biosystem;
Function	ATP binding; binding; calcium ion binding; calmodulin binding; elongation factor-2 kinase activity; nucleotide binding; protein kinase activity; protein serine/threonine kinase activity; translation factor activity, nucleic acid binding;

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