

Recombinant Human EIF2AK2 293 Cell Lysate

Cat. No. EIF2AK2-6674HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for eukaryotic translation initiation factor 2-alpha kinase 2 (EIF2AK2), transcript variant 1 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 [EIF2AK2 eukaryotic translation initiation factor 2-alpha kinase 2 \[Homo sapiens \]](#)

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;

Gene ID [5610](#)

mRNA Refseq [NM_001135651](#)

Protein Refseq [NP_001129123](#)

MIM [176871](#)

UniProt ID [P19525](#)

Chromosome Location 2p22-p21

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Pathway

Antiviral mechanism by IFN-stimulated genes, organism-specific biosystem;
Ceramide signaling pathway, organism-specific biosystem; Cytokine Signaling in
Immune system, organism-specific biosystem; Disease, organism-specific biosystem;
Hepatitis C, organism-specific biosystem; Hepatitis C, conserved biosystem; Herpes
simplex infection, organism-specific biosystem;

Function

ATP binding; double-stranded RNA binding; eukaryotic translation initiation factor
2alpha kinase activity; non-membrane spanning protein tyrosine kinase activity;
nucleotide binding; protein binding; protein kinase activity; protein phosphatase type
2A regulator activity; protein serine/threonine kinase activity; transferase activity,
transferring phosphorus-containing groups;

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