

## Recombinant Human EIF4A2 293 Cell Lysate

**Cat. No.** EIF4A2-6653HCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>              | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>         | Antigen standard for eukaryotic translation initiation factor 4A2 (EIF4A2) 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.                                                                                              |
| <b>Components</b>          | 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). |
| <b>Size</b>                | 0.1 mg                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Instruction</b> | 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**

EIF4A2 eukaryotic translation initiation factor 4A2 [ Homo sapiens ]

**Official Symbol**

EIF4A2

**Synonyms**

EIF4A2; eukaryotic translation initiation factor 4A2; EIF4F, eukaryotic translation initiation factor 4A, isoform 2; eukaryotic initiation factor 4A-II; BM 010; DDX2B; EIF4A; ATP-dependent RNA helicase eIF4A-2; eukaryotic translation initiation factor 4A, isoform 2; EIF4F; BM-010; eIF4A-II; eIF-4A-II;

**Gene ID**

1974

**mRNA Refseq**

NM\_001967

**Protein Refseq**

NP\_001958

**MIM**

601102

**UniProt ID**

Q14240

**Chromosome Location**

3q28

**Pathway**

Activation of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent binding to 43S, organism-specific biosystem; Antiviral mechanism by IFN-stimulated genes, organism-specific biosystem; Cap-dependent Translation Initiation,

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organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Deadenylation of mRNA, organism-specific biosystem; Deadenylation-dependent mRNA decay, organism-specific biosystem; Eukaryotic Translation Initiation, organism-specific biosystem;

**Function**

ATP binding; ATP-dependent helicase activity; RNA binding; helicase activity; hydrolase activity; nucleic acid binding; nucleotide binding; protein binding; translation initiation factor activity;

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