

Recombinant Human EIF2S2 293 Cell Lysate

Cat. No. EIF2S2-6665HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa (EIF2S2) 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 EIF2S2 eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa [Homo sapiens]

Official Symbol EIF2S2

Synonyms EIF2S2; eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa; EIF2, eukaryotic translation initiation factor 2, subunit 2 (beta, 38kD); eukaryotic translation initiation factor 2 subunit 2; EIF2beta; PPP1R67; protein phosphatase 1; regulatory subunit 67; eIF-2-beta; eukaryotic initiation factor 2-beta; protein phosphatase 1, regulatory subunit 67; eukaryotic translation initiation factor 2 beta; eukaryotic translation initiation factor 2 subunit beta; EIF2; EIF2B; MGC8508; DKFZp686L18198;

Gene ID 8894

mRNA Refseq NM_003908

Protein Refseq NP_003899

MIM 603908

UniProt ID P20042

Chromosome Location 20q11.2

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Pathway

Activation of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent binding to 43S, organism-specific biosystem; Cap-dependent Translation Initiation, organism-specific biosystem; Eukaryotic Translation Initiation, organism-specific biosystem; Formation of the ternary complex, and subsequently, the 43S complex, organism-specific biosystem; GTP hydrolysis and joining of the 60S ribosomal subunit, organism-specific biosystem; Gene Expression, organism-specific biosystem; L13a-mediated translational silencing of Ceruloplasmin expression, organism-specific biosystem;

Function

RNA binding; metal ion binding; protein binding; translation factor activity, nucleic acid binding; translation initiation factor activity;