Recombinant Human EIF3A 293 Cell Lysate

Cat. No. EIF3A-6664HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for eukaryotic translation initiation factor 3, subunit A (EIF3A) 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	EIF3A eukaryotic translation initiation factor 3, subunit A [Homo sapiens]
Official Symbol	EIF3A
Synonyms	EIF3A; eukaryotic translation initiation factor 3, subunit A; EIF3, EIF3S10, eukaryotic translation initiation factor 3, subunit 10 theta, 150/170kDa; eukaryotic translation initiation factor 3 subunit A; eIF3 p170; eIF3 theta; eIF3a; KIAA0139; TIF32; eIF3 p167; eIF3 p180; eIF3 p185; eIF-3-theta; EIF3, p180 subunit; centrosomin homolog; cytoplasmic protein p167; eukaryotic translation initiation factor 3 subunit 10; eukaryotic translation initiation factor 3, subunit 10, 170kD; eukaryotic translation initiation factor 3, subunit 10 (theta, 170kD); eukaryotic translation initiation factor 3, subunit 10 theta, 150/170kDa; eukaryotic translation initiation factor 3, subunit 10 (theta, 150/170kD); EIF3; P167; p180; p185; EIF3S10; eIF3-p170; eIF3-theta;
Gene ID	8661
mRNA Refseq	NM_003750
Protein Refseq	NP_003741
MIM	602039
UniProt ID	Q14152
Chromosome	10q26.11

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Location	
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 a pool of free 40S subunits, 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;
Function	protein binding; structural molecule activity; contributes_to translation initiation factor activity; contributes_to translation initiation factor activity;

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