

eIF3α Polyclonal Antibody

Catalog # AP69695

Product Information

ApplicationWBPrimary Accession075822

Reactivity Human, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Calculated MW 29062

Additional Information

Gene ID 8669

Other Names EIF3J; EIF3S1; Eukaryotic translation initiation factor 3 subunit J; eIF3j;

Eukaryotic translation initiation factor 3 subunit 1; eIF-3-alpha; eIF3 p35

Dilution WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other

applications.

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

Protein Information

Name EIF3J {ECO:0000255 | HAMAP-Rule:MF_03009}

Function Component of the eukaryotic translation initiation factor 3 (eIF-3) complex,

which is required for several steps in the initiation of protein synthesis (PubMed: <u>25849773</u>, PubMed: <u>27462815</u>). The eIF-3 complex associates with

the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A,

eIF-2:GTP:methionyl-tRNAi and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression

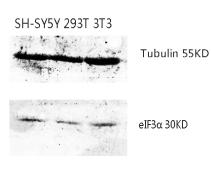
(PubMed: 25849773).

Cellular Location Cytoplasm {ECO:0000255 | HAMAP-Rule:MF_03009}.

Background

Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis (PubMed:25849773, PubMed:27462815). The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF- 2:GTP:methionyl-tRNAi and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression (PubMed:25849773).

Images



Western Blot analysis of various cells using Antibody diluted at 1:1000. Secondary antibody was diluted at 1:20000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.