**BACKGROUND**

The eukaryotic translation factor 4A (eIF4A) is a member of the DEAD/H-box RNA helicase family that couples ATP hydrolysis to RNA binding and duplex separation. eIF4A participates in the initiation of translation by unwinding secondary structure in the 5'-untranslated region of mRNAs and facilitating scanning by the 40S ribosomal subunit for the initiation codon. eIF4AIII is a component of the exon junction complex (EJC) that assembles near exon-exon junctions of mRNAs as a result of splicing. eIF4AIII, but not eIF4A or eIF4AI, preferentially associates with spliced mRNA. eIF4AIII is found in the nucleus whereas eIF4AI and eIF4AI are found in the cytoplasm.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: EIF4A3 (human) mapping to 17q25.3; Eif4a3 (mouse) mapping to 11 E2.

**SOURCE**

eIF4AIII (3F1) is a mouse monoclonal antibody raised against recombinant GST-tagged eIF4A3 protein of human origin.

**PRODUCT**

Each vial contains 200 µg IgG kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

eIF4AIII (3F1) is recommended for detection of eIF4AIII of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).


Molecular Weight of eIF4AIII: 47 kDa.

Positive Controls: eIF4AIII (h): 293T Lysate: sc-112312, HeLa nuclear extract: sc-2120 or HeLa whole cell lysate: sc-2200.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

![Western blot analysis of eIF4AIII expression in non-transfected](image1)

![Western blot analysis of eIF4AIII expression in HeLa whole cell lysate](image2)

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.