

EIF4E Antibody

Mouse Monoclonal Antibody (Mab)
 Catalog # AM1852B-400 □

Specification

EIF4E Antibody - Product info

Application	IF, WB
Primary Accession	P06730
Other Accession	NP_001959.1
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,K
Clone Names	163CT48.1.9
Calculated MW	25097

EIF4E Antibody - Additional info

Gene ID 1977

Other Names

Eukaryotic translation initiation factor 4E, eIF-4E, eIF4E, eIF-4F
 25 kDa subunit, mRNA cap-binding protein, EIF4E, EIF4EL1,
 EIF4F

Target/Specificity

This EIF4E monoclonal antibody is generated from mouse
 immunized with EIF4E recombinant protein.

Dilution

WB~~1:2000
 IF~~1:10~50

Format

Purified monoclonal antibody supplied in PBS with 0.09% (W/V)
 sodium azide. This antibody is purified through a protein G
 column, followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term
 storage store at -20°C in small aliquots to prevent freeze-thaw
 cycles.

Precautions

EIF4E Antibody is for research use only and not for use in
 diagnostic or therapeutic procedures.

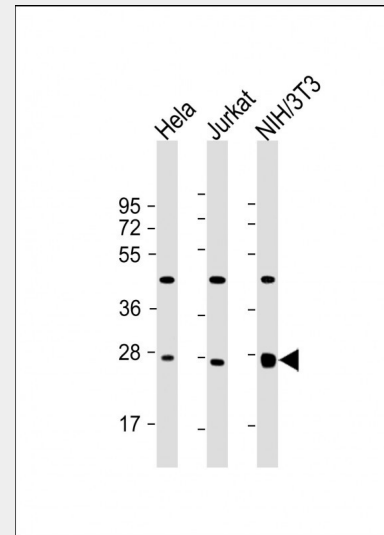
EIF4E Antibody - Protein Information

Name EIF4E

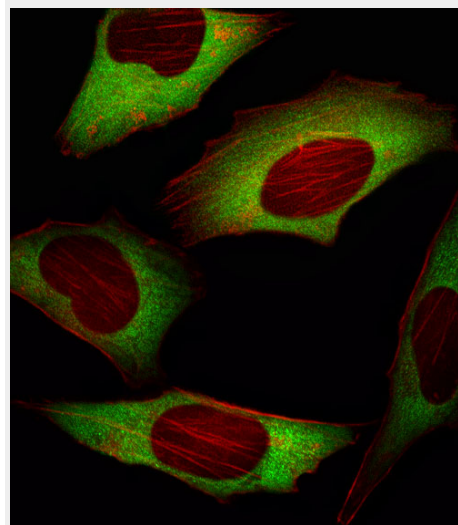
Synonyms EIF4EL1, EIF4F

Function

Recognizes and binds the 7-methylguanosine-containing mRNA
 cap during an early step in the initiation of protein synthesis
 and facilitates ribosome binding by inducing the unwinding of



All lanes : Anti-EIF4E Antibody at 1:2000
 Lane 1: HeLa whole cell lysate
 Lane 2: Jurkat whole cell lysate
 Lane 3: NIH/3T3 whole cell lysate
 Lysates/proteins at 20 µg per lane.
 Secondary Goat Anti-mouse IgG, (H+L),
 Peroxidase conjugated at 1/10000
 dilution. Predicted band size : 25 kDa
 Blocking/Dilution buffer: 5% NFDm/TBST.



Fluorescent image of HeLa cell stained
 with EIF4E Antibody(Cat#AM1852b/SG10
 1020AF).HeLa cells were fixed with 4%
 PFA (20 min), permeabilized with Triton
 X-100 (0.1%, 10 min), then incubated with
 EIF4E primary antibody (1:25, 1 h at 37°C.
 For secondary antibody, Alexa Fluor®

the mRNAs secondary structures. Component of the CYFIP1-EIF4E-FMR1 complex which binds to the mRNA cap and mediates translational repression. In the CYFIP1-EIF4E-FMR1 complex this subunit mediates the binding to the mRNA cap.

Cellular Location
Cytoplasm, P-body. Cytoplasm

488 conjugated donkey anti-mouse antibody (green) was used (1:400, 50 min at 37°C. Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37°C. EIF4E immunoreactivity is localized to Cytoplasm significantly.

EIF4E Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [□Western Blot](#)
- [□Blocking Peptides](#)
- [□Dot Blot](#)
- [□Immunohistochemistry](#)
- [□Immunofluorescence](#)
- [□Immunoprecipitation](#)
- [□Flow Cytometry](#)
- [□Cell Culture](#)

EIF4E Antibody - Background

EIF4E recognizes and binds the 7-methylguanosine-containing mRNA cap during an early step in the initiation of protein synthesis and facilitates ribosome binding by inducing the unwinding of the mRNAs secondary structures.

EIF4E Antibody - Citations

- [Multiple components of eIF4F are required for protein synthesis-dependent hippocampal long-term potentiation.](#)