Product Name: **EIF4E Mouse Monoclonal Antibody**
Catalog #: **AMM80969**
For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC,ELISA,FC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	PBS containing 0.03% sodium azide.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:200-1:1000,ICC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	25kDa

Antigen Information

Gene Name	EIF4E
Alternative Names	CBP; EIF4F; EIF4E1; EIF4EL1; MGC111573; EIF4E
Gene ID	1977.0
SwissProt ID	P06730
Immunogen	Purified recombinant fragment of human EIF4E expressed in E. Coli.

Background

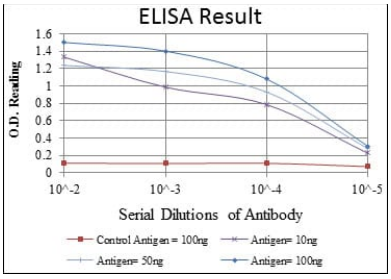
eIF4E, a protein modulates translation of maternal mRNAs in early embryos before the onset of zygotic transcription. eIF4E also influences the overall rate of translation. eIF4E binds to the 7 methyl GTP cap structure of eukaryotic mRNAs. Phosphorylation of eIF4E on serine 209 regulates the affinity of this protein for the 7 methyl GTP cap and/or RNA. Phosphorylation also enhances

the interaction of eIF4E with eIF4G, which form a complex known as eIF4F. eIF4E phosphorylation is correlated with increased translational rate in a number of cell types. Several kinases are currently being investigated as potential regulators of eIF4E including PKC and/or the MAP kinase activated Mnk.

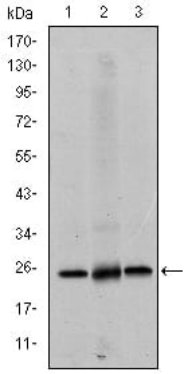
Research Area

PI3K-Akt signaling pathway,mTOR signaling pathway

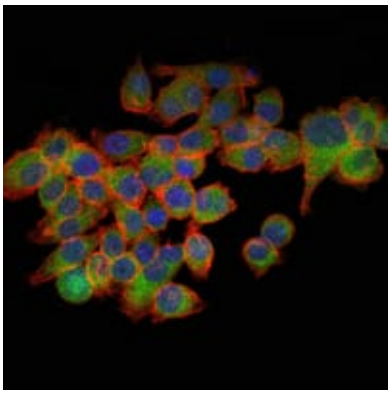
Image Data



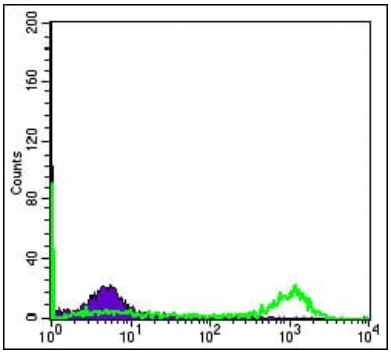
Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng);



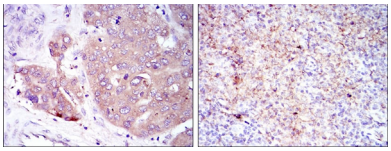
Western blot analysis using EIF4E mouse mAb against Hela (1), HEK293 (2) and K562 (3) cell lysate.



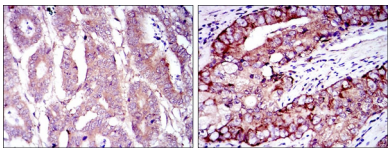
Immunofluorescence analysis of GC-7901 cells using EIF4E mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of Hela cells using EIF4E mouse mAb (green) and negative control (purple).



Immunohistochemical analysis of paraffin-embedded human liver cancer (left) and submaxillary tumor (right) using EIF4E mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human stomach cancer (left) and prostate cancer (right) using EIF4E mouse mAb with DAB staining.