
Product Name: eIF4E Rabbit Monoclonal Antibody**Catalog #: AMRe85531**

For research use only.

Summary

Description	Recombinant rabbit monoclonal antibody
Host	Rabbit
Application	WB,ICC,IP
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Concentration	0.62mg/ml. The concentration of this product may be batch-dependent.
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in TBS with 0.05% sodium azide,0.05%protective protein and 50% glycerol.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:1000,ICC 1:50-1:200,IP 1:10-1:20
Molecular Weight	Calculated MW: 25 kDa; Observed MW: 25 kDa

Antigen Information

Gene Name	eIF4E
Alternative Names	EIF4E; EIF4EL1; EIF4F; Eukaryotic translation initiation factor 4E; eIF-4E; eIF4E; eIF-4F 25 kDa subunit; mRNA cap-binding protein
Gene ID	1977.0
SwissProt ID	P06730
Immunogen	A synthetic peptide of human eIF4E

Background

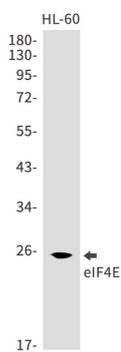
eIF4E, a protein modulates translation of maternal mRNAs in early embryos before the onset of zygotic transcription. eIF4E also influences the overall rate of translation. eIF4E binds to the 7 methyl GTP cap structure of eukaryotic mRNAs. Phosphorylation

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.

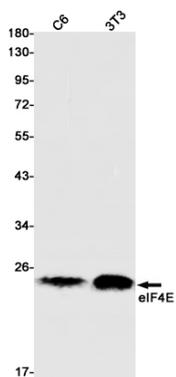
Research Area

PI3K-Akt signaling pathway,mTOR signaling pathway

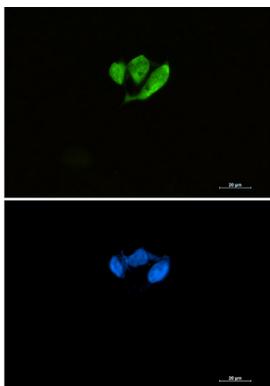
Image Data



Western blot analysis of eIF4E in HL-60 lysates using eIF4E antibody.



Western blot analysis of eIF4E in C6, 3T3 lysates using eIF4E antibody



Immunocytochemistry analysis of eIF4E (green) in HCT116 using eIF4E antibody, and DAPI(blue).