

**Product Name: eIF4E Rabbit Monoclonal Antibody****Catalog #: AMRe85532**

For research use only.

**Summary**

<b>Description</b>	Recombinant rabbit monoclonal antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,IP
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in TBS with 0.05% sodium azide,0.05%protective protein and 50% glycerol.
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:1000,IHC 1:50-1:100,IP 1:10-1:20
<b>Molecular Weight</b>	Calculated MW: 25 kDa; Observed MW: 25 kDa

**Antigen Information**

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

**Background**

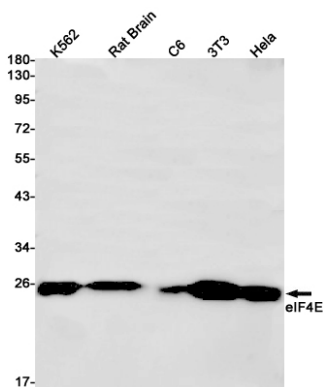
eIF4E, a protein modulates translation of maternal mRNAs in early embryos before the onset of zygotic transcription. eIF4E also influences the overall rate of translation. eIF4E binds to the 7 methyl GTP cap structure of eukaryotic mRNAs. Phosphorylation

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.

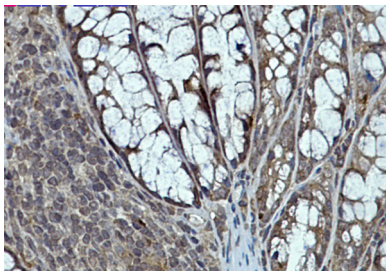
## Research Area

PI3K-Akt signaling pathway, mTOR signaling pathway

## Image Data



Western blot analysis of eIF4E in K562, rat Brain, C6, 3T3, HeLa lysates using eIF4E antibody.



Immunohistochemistry analysis of paraffin-embedded mouse colon using eIF4E antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.