

**Product Name: Phospho-eIF4E (Ser209) Rabbit
Monoclonal Antibody
Catalog #: AMRe01939**

Summary

Production Name	Phospho-eIF4E (Ser209) Rabbit Monoclonal Antibody
Description	Recombinant rabbit monoclonal antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,IP
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Phosphorylated
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% protective protein
Purification	Affinity Purification

Immunogen

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
SwissProt ID	P06730.

Application

Dilution Ratio	WB 1:500-1:1000,IHC 1:50-1:100,ICC/IF 1:50-1:200,IP 1:20-1:50
Molecular Weight	Calculated MW: 25 kDa; Observed MW: 25 kDa

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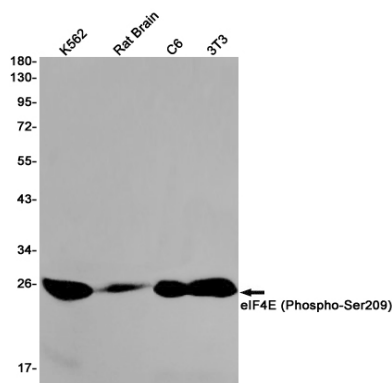
Background

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.

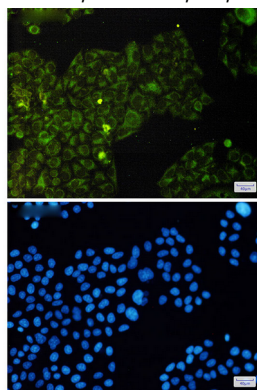
Research Area

Epigenetics and Nuclear Signaling

Image Data

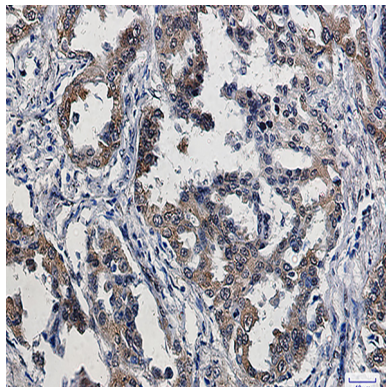


Western blot analysis of eIF4E (Phospho-Ser209) in K562, rat Brain, C6, 3T3 lysates using Phospho-eIF4E (Ser209) antibody.



Immunocytochemistry analysis of eIF4E (Phospho-Ser209)(green) in HeLa using eIF4E (Phospho-Ser209) antibody, and DAPI(blue)

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Immunohistochemistry analysis of paraffin-embedded Human lung cancer using Phospho-eIF4E (Ser209) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

Note

For research use only.