

Product Name: Phospho-eIF4E (Ser209) Rabbit Polyclonal Antibody
Catalog #: APRab00682

Summary

Production Name	Phospho-eIF4E (Ser209) Rabbit Polyclonal Antibody
Description	Primary antibody
Host	Rabbit
Application	WB,IHC-P,ICC/IF,IP
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Phosphorylated
Isotype	IgG
Clonality	Polyclonal Antibody
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification	Affinity Chromatography

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 IF: 1/50-1/200 IP: 1/20
Molecular Weight	Calculated MW: 25 kDa; Observed MW: 25 kDa

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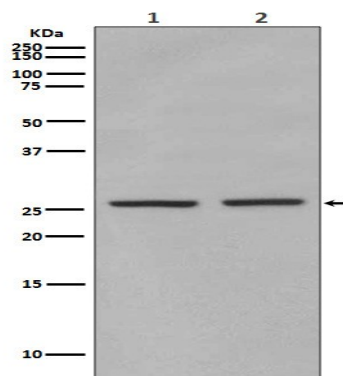
Background

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.

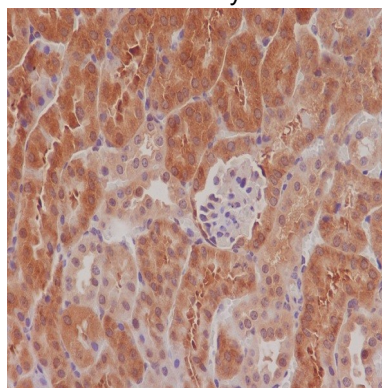
Research Area

Epigenetics and Nuclear Signaling

Image Data



Western blot analysis of eIF4E (Phospho-S209) in (1) HEK293 lysates; (2) mouse spleen lysates using Phospho-eIF4E (Ser209) antibody.



Immunohistochemistry analysis of paraffin-embedded mouse kidney using Phospho-eIF4E (S209) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



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Note

For research use only.