Anti-Phospho-eIF4E (Ser209) Rabbit mAb

Purified Rabbit Monoclonal Antibody

Catalog # R012637

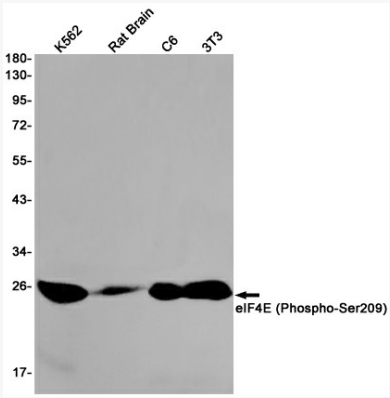
Product Information

Application	WB, IHC-F/IF (Tissue-F), IHC-P/IF (Tissue-P), ICC/IF (Cell), IP, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:500~1:1,000; IHC-P 1:50~1:100; IF 1:50~1:200; IP 1:20
Host	Rabbit
Clonality	Monoclonal
Clone No.	79K60M11
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Ser209 of human eIF4E
Format	Buffer System: 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA Purification: Affinity Purified.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-eIF4E (Ser209) antibody [79K60M11] is for research use only and not for use in diagnostic or therapeutic procedures.

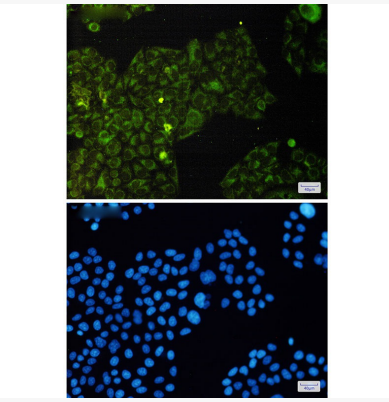
Protein Information

Synonyms	EIF4E, EIF4EL1, EIF4F, Eukaryotic translation initiation factor 4E, eIF-4E, eIF4E, eIF-4F 25 kDa subunit, mRNA cap-binding protein.
Calculated MW	Calculated MW: 25 kDa; Observed MW: 25 kDa
Uniprot ID	P06730
Gene ID	1977
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.

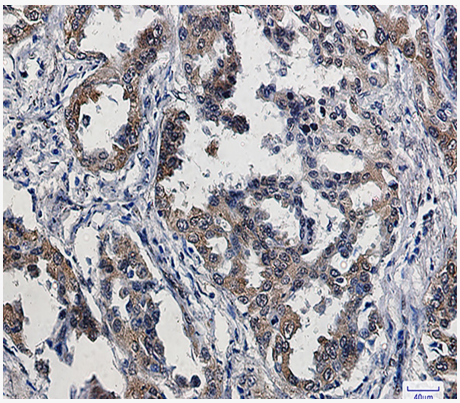
Validation Images



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)



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.