ARG58636
anti-eIF4E phospho (Ser209) antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes eIF4E phospho (Ser209)
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	eIF4E
Species	Human
Immunogen	Phospho specific peptide around Ser209 of Human eIF4E.
Conjugation	Un-conjugated
Alternate Names	EIF4E1; EIF4EL1; Eukaryotic translation initiation factor 4E; eIF-4F 25 kDa subunit; mRNA cap-binding protein; CBP; eIF-4E; eIF4E; AUTS19; EIF4F

Application Instructions

Application table

Application	Dilution
ICC/IF	1:50 - 1:200
IHC-P	1:50 - 1:200
IP	1:50
WB	1:1000 - 1:10000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	HEK293
Observed Size	~ 25 kDa

Properties

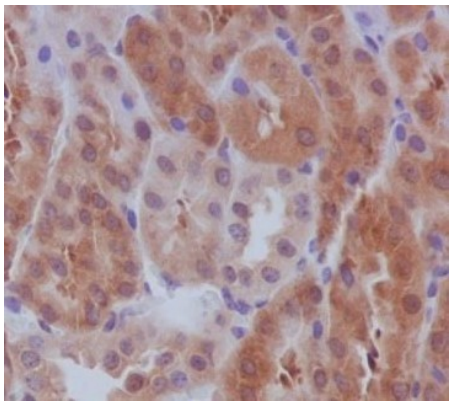
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw

	cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

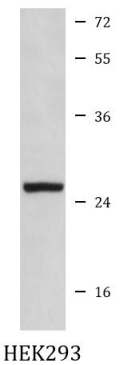
Gene Symbol	EIF4E
Gene Full Name	eukaryotic translation initiation factor 4E
Background	The protein encoded by this gene is a component of the eukaryotic translation initiation factor 4F complex, which recognizes the 7-methylguanosine cap structure at the 5' end of messenger RNAs. The encoded protein aids in translation initiation by recruiting ribosomes to the 5'-cap structure. Association of this protein with the 4F complex is the rate-limiting step in translation initiation. This gene acts as a proto-oncogene, and its expression and activation is associated with transformation and tumorigenesis. Several pseudogenes of this gene are found on other chromosomes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]
Function	Recognizes and binds the 7-methylguanosine-containing mRNA cap during an early step in the initiation of protein synthesis and facilitates ribosome binding by inducing the unwinding of the mRNAs secondary structures. Component of the CYFIP1-EIF4E-FMR1 complex which binds to the mRNA cap and mediates translational repression. In the CYFIP1-EIF4E-FMR1 complex this subunit mediates the binding to the mRNA cap. [UniProt]
Calculated Mw	25 kDa
PTM	Phosphorylation increases the ability of the protein to bind to mRNA caps and to form the eIF4F complex. [UniProt]
Cellular Localization	Mitochondrion. [UniProt]

Images



ARG58636 anti-eIF4E eIF4E phospho (Ser209) antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse kidney stained with ARG58636 anti-eIF4E eIF4E phospho (Ser209) antibody.



HEK293

ARG58636 anti-eIF4E eIF4E phospho (Ser209) antibody WB image

Western blot: HEK293 cell lysate stained with ARG58636 anti-eIF4E eIF4E phospho (Ser209) antibody.