

ARG51206 anti-eIF4E antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes eIF4E
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	eIF4E
Species	Human
Immunogen	Peptide sequence around aa. 207~211 (S-G-S-T-T) derived from 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; APTS19; EIF4F

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:100 - 1:200
	IHC-P	1:50 - 1:100
	WB	1:500 - 1:1000

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

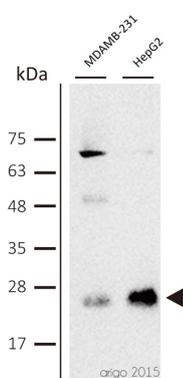
Form	Liquid
Purification	Antibodies were produced by immunizing rabbits with KLH-conjugated synthetic peptide. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Buffer	PBS (without Mg ²⁺ and Ca ²⁺ , pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml
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

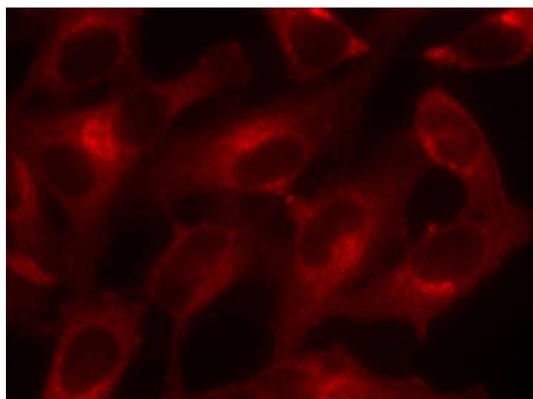
Gene Symbol	EIF4E
Gene Full Name	eukaryotic translation initiation factor 4E
Background	Recognizes and binds the 7-methylguanosine-containing mRNA cap during an early step in the initiation of protein synthesis and facilitates ribosome binding by inducing the unwinding of the mRNAs secondary structures.
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]
Research Area	Gene Regulation antibody
Calculated Mw	25 kDa
PTM	Phosphorylation increases the ability of the protein to bind to mRNA caps and to form the eIF4F complex.

Images



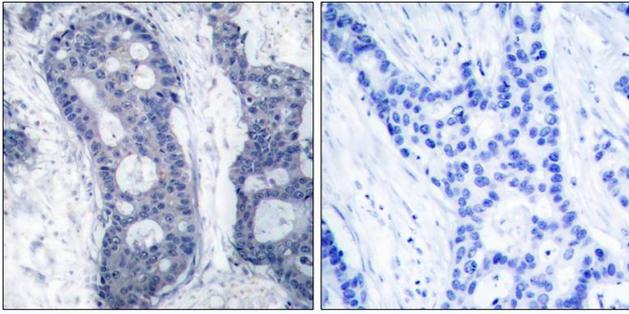
ARG51206 anti-eIF4E antibody WB image

Western blot: MDAMB-231 and HepG2 cell lysates stained with ARG51206 anti-eIF4E antibody at 1:500 dilution.



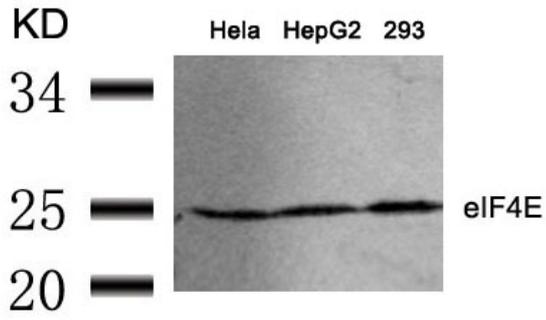
ARG51206 anti-eIF4E antibody ICC/IF image

Immunofluorescence: methanol-fixed HeLa cells stained with anti-eIF4E antibody ARG51206.



ARG51206 anti-eIF4E antibody IHC-P image

Immunohistochemistry: paraffin-embedded human breast carcinoma tissue stained with anti-eIF4E antibody ARG51206 (left) or the same antibody preincubated with blocking peptide (right).



ARG51206 anti-eIF4E antibody WB image

Western Blot: extracts from HeLa, HepG2 and 293 cells stained with anti-eIF4E antibody ARG51206.