ARG51723
anti-eIF4E phospho (Ser209) antibody

Package: 100 µl, 50 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, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	eIF4E
Species	Human
Immunogen	Peptide sequence around phosphorylation site of serine 209 (S-G-S(p)-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; AUTS19; 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

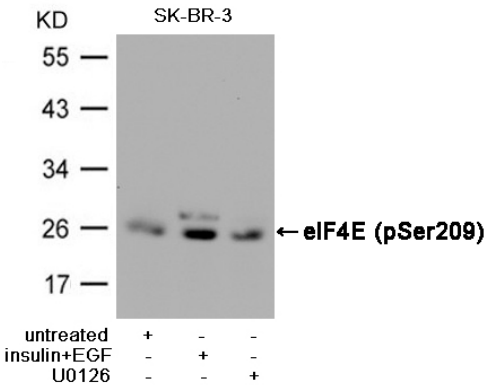
Form	Liquid
Purification	Antibodies were produced by immunizing rabbits with KLH-conjugated synthetic phosphopeptide. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. In addition, non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Buffer	PBS (without Mg2+ and Ca2+, 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

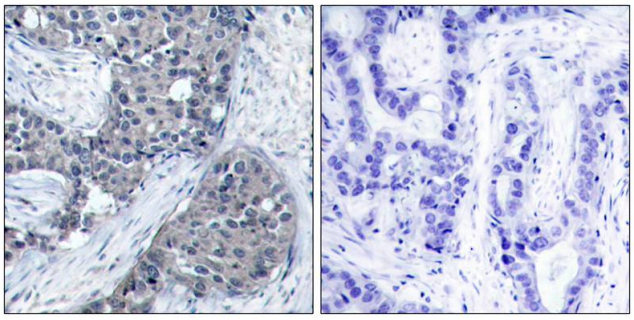
Gene Symbol	EIF4E
Gene Full Name	eukaryotic translation initiation factor 4E
Background	Recognizes and binds the 7-methylguanosine-containing mRNA cap during an early step in the initiation of protein synthesis and facilitates ribosome binding by inducing the unwinding of the mRNAs secondary structures.
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



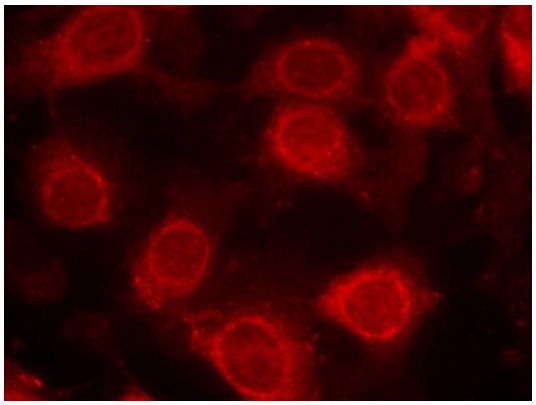
ARG51723 anti-eIF4E phospho (Ser209) antibody WB image

Western blot: Extracts from SK-BR-3 cells, untreated or insulin and EGF treated, and pretreated with U0126 cells, stained with ARG51723 anti-eIF4E phospho (Ser209) antibody.



ARG51723 anti-eIF4E phospho (Ser209) antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human breast carcinoma tissue stained with ARG51723 anti-eIF4E phospho (Ser209) antibody (left) or the same antibody preincubated with blocking peptide (right).



ARG51723 anti-eIF4E phospho (Ser209) antibody ICC/IF image

Immunofluorescence: methanol-fixed MCF cells stained with ARG51723 anti-eIF4E phospho (Ser209) antibody.