

## eIF4E(Ab-209) Antibody

Catalog No: #21226

Package Size: #21226-1 50ul #21226-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

Product Name	eIF4E(Ab-209) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total eIF4E protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa. 207~211 (S-G-S-T-T) derived from Human eIF4E.
Target Name	eIF4E
Other Names	mRNA cap-binding protein; eIF-4F 25 kDa subunit;
Accession No.	Swiss-Prot: P06730NCBI Protein: NP_001124150.1
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

## Application Details

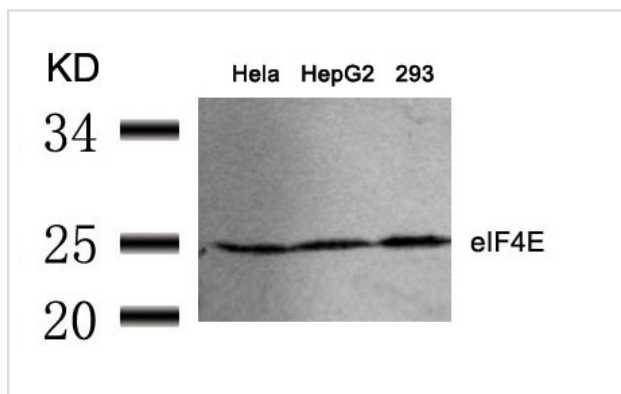
Predicted MW: 25kd

Western blotting: 1:500~1:1000

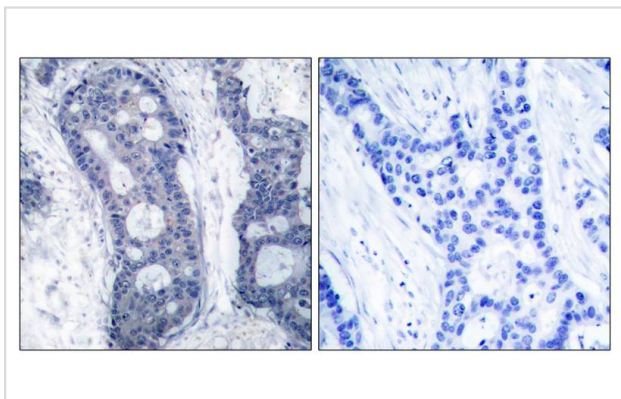
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

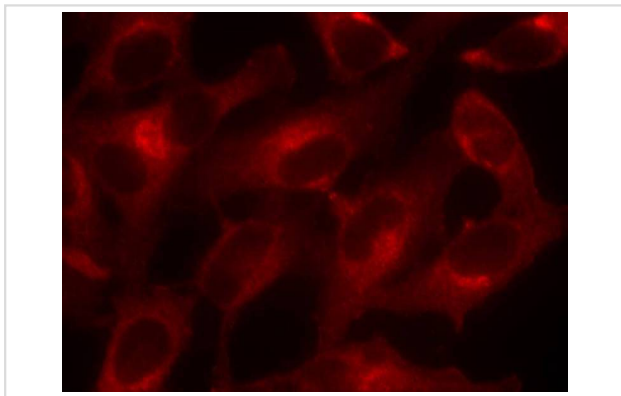
## Images



Western blot analysis of extracts from HeLa, HepG2 and 293 cells using eIF4E(Ab-209) Antibody #21226.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using eIF4E(Ab-209) Antibody #21226(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells using eIF4E(Ab-209) Antibody #21226.

## 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.

Li BD, et al. (1998) *Ann Surg*; 227(5): 756-763

Altmann M, et al. (1989) *Nucleic Acids Res*; 17(18): 7520

De Gregorio E, et al. (2001) *RNA*; 7(1): 106-113

Gu W, et al. (2004) *Nucleic Acids Res*; 32(15): 4448-4461

Ohlmann T, et al. (1996) *EMBO J*; 15(6): 1371-1382

## Published Papers

el at., Pyruvate Kinase M (PKM) binds ribosomes in a poly-ADP ribosylation dependent manner to induce translational stalling In *Nucleic Acids Res* On2023 Jul 7byNevraj S Kejiou , Lena Ilan et al..PMID:37224531, , (2023)

[PMID:37224531](#)

el at., Conversion of Leucine to  $\epsilon$ -Y-Hydroxy- $\epsilon$ -Y-Methylbutyrate by  $\delta$ O -Keto Isocaproate Dioxygenase Is Required for a Potent Stimulation of Protein Synthesis in L6 Rat Myotubes.In *J Cachexia Sarcopenia Muscle* on 2016 Mar by Mari a D Gir $\theta$ "En , Jos $\theta$  D Vi lchez et al..PMID:27065075, , (2016)

[PMID:27065075](#)

el at., Activation of ERK by sodium tungstate induces protein synthesis and prevents protein degradation in rat L6 myotubes.In *FEBS Lett* on 2014 Jun 27 by Rafael Salto, Jos $\theta$  D Vi lchez et al..PMID:24846141, , (2014)

[PMID:24846141](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.