

eIF4E(Phospho-Ser209) Antibody

Catalog No: #11233

Package Size: #11233-1 50ul #11233-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	eIF4E(Phospho-Ser209) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB IHC IF
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of eIF4E only when phosphorylated at serine 209.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 209 (S-G-S(p)-T-T) derived from Human eIF4E.
Target Name	eIF4E
Modification	Phospho
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 ²⁺ and Ca ²⁺), 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

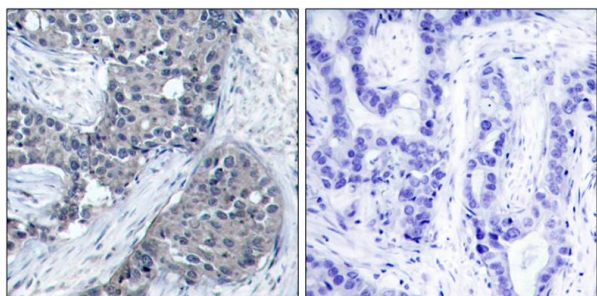
Predicted MW: 25kd

Western blotting: 1:500~1:1000

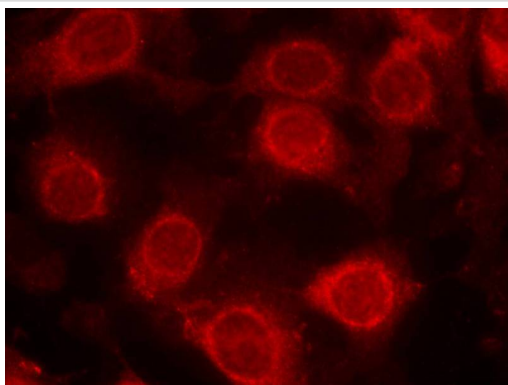
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

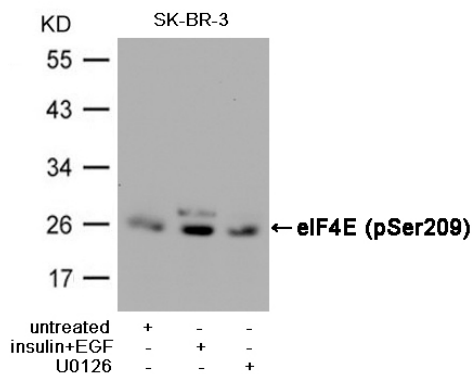
Images



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using eIF4E(Phospho-Ser209) Antibody #11233(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed MCF cells using eIF4E(Phospho-Ser209) Antibody #11233.



Western blot analysis of extracts from SK-BR-3 cells, untreated or insulin and EGF treated, and pretreated with U0126 cells, using eIF4E (Phospho-Ser209) Antibody #11233.

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

Published Papers

el at., Conversion of Leucine to ϵ -Y-Hydroxy- ϵ -Y-Methylbutyrate by δ 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 θ "En , Jos θ 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 θ 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.