

Rabbit eIF4E Polyclonal Antibody | anti-eIF4E antibody

Phospho-eIF4E (Thr210) Antibody

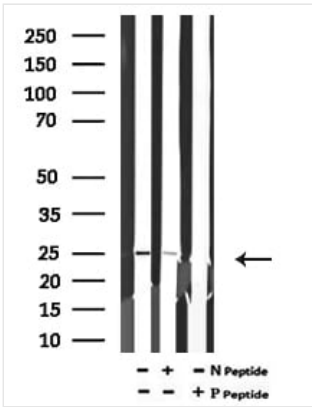
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328367	Rabbit	Human, Mouse, RatPredicted: Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

eIF4E; Polyclonal Antibody; Phospho-eIF4E (Thr210) Antibody; AUTS19; CBP; eIF 4E; eIF 4F 25 kDa subunit; EIF 4F; eIF-4E; eIF-4F 25 kDa subunit; EIF4E1; EIF4EL1; EIF4F; Eukaryotic translation initiation factor 4 E; Eukaryotic translation initiation factor 4E; Eukaryotic translation initiation factor 4E like 1; IF4E_HUMAN; Messenger RNA Cap Binding Protein eIF 4E; MGC111573; mRNA cap binding protein; mRNA cap-binding protein; anti-eIF4E antibody

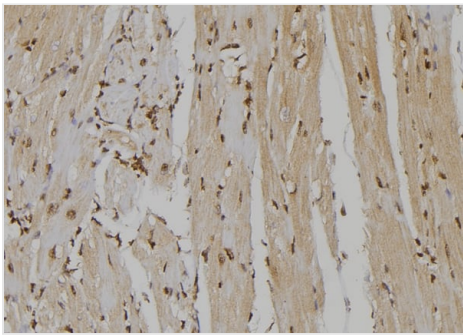
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted: Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-eIF4E (Thr210) Antibody detects endogenous levels of eIF4E only when phosphorylated at Thr210.
Purity/Purification	Purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid; Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	237
Applicable Applications for anti-eIF4E antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human eIF4E around the phosphorylation site of Thr210.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



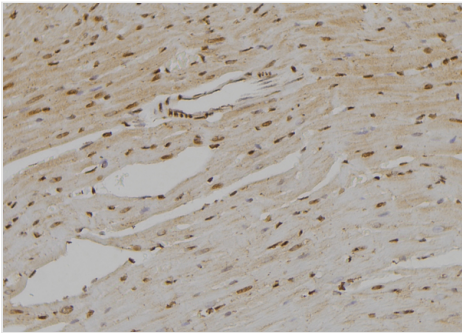
WB (Western Blot)

Western blot analysis of Phospho-eIF4E (Thr210) in lysates of NIH-3T3 FBS, using Phospho-eIF4E (Thr210) Antibody.



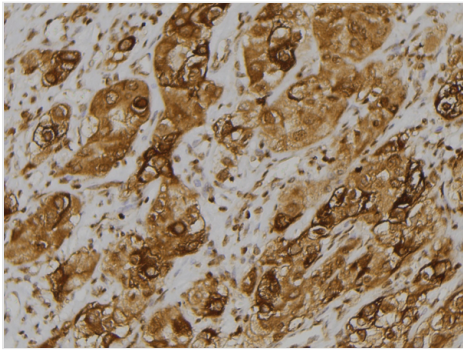
IHC (Immunohistochemistry)

At 1/100 staining mouse heart tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary



IHC (Immunohistochemistry)

At 1/100 staining rat heart tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary



IHC (Immunohistochemistry)

At 1/100 staining human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary

ADDITIONAL INFORMATION

Related Product Information for anti-eIF4E antibody

Description: 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.

Post Translational Modifications: Phosphorylation increases the ability of the protein to bind to mRNA caps and to form the eIF4F complex.

Subunit Structure: eIF4F is a multi-subunit complex, the composition of which varies with external and internal environmental conditions. It is composed of at least EIF4A, EIF4E and EIF4G1/EIF4G3. EIF4E is also known to interact with other partners. The interaction with EIF4ENIF1 mediates the import into the nucleus. Hypophosphorylated EIF4EBP1, EIF4EBP2 and EIF4EBP3 compete with EIF4G1/EIF4G3 to interact with EIF4E; insulin stimulated MAP-kinase (MAPK1 and MAPK3) phosphorylation of EIF4EBP1 causes dissociation of the complex allowing EIF4G1/EIF4G3 to bind and consequent initiation of translation (PubMed:24207126, PubMed:25533957, PubMed:21661078). Rapamycin can attenuate insulin stimulation, mediated by FKBP. Interacts mutually exclusive with EIF4A1 or EIF4A2. Interacts with NGDN and PIWIL2. Component of the CYFIP1-EIF4E-FMR1 complex composed of CYFIP, EIF4E and FMR1. Interacts directly with CYFIP1. Interacts with CLOCK (By similarity). Interacts with Lassa virus Z protein. Binds to MKNK2 in nucleus. Interacts with LIMD1, WTIP and AJUBA. Interacts with APOBEC3G in an RNA-dependent manner. Interacts with LARP1. Interacts with METTL3 (PubMed:27117702). Interacts with RBM24; this interaction prevents EIF4E from binding to p53/TP53 mRNA and inhibits the assembly of translation initiation complex (PubMed:29358667).

Similarity: Belongs to the eukaryotic initiation factor 4E family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	194578907
NCBI GeneID	1977
NCBI Accession #	NP_001124150.1
NCBI GenBank Nucleotide #	NP_001124150.1
UniProt Accession #	P06730
Molecular Weight	Observed: 25 kDa Predicted: 26 kDa
NCBI Official Full Name	eukaryotic translation initiation factor 4E isoform 3
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 4E
NCBI Official Symbol	EIF4E
NCBI Official Synonym Symbols	CBP; EIF4F; AUTS19; EIF4E1; eIF-4E; EIF4EL1
NCBI Protein Information	eukaryotic translation initiation factor 4E
UniProt Protein Name	Eukaryotic translation initiation factor 4E
UniProt Gene Name	EIF4E
UniProt Synonym Gene Names	EIF4EL1; EIF4F; eIF-4E; eIF4E
UniProt Entry Name	IF4E_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/eif4e-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/328367>