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Eukaryotic Protein Synthesis Initiation Factor 4E (eIF-4E) antibodies

Anti-Eukaryotic Protein Synthesis Initiation Factor 4E Antibodies (eIF4E-101AP)

The capped-mRNA binding protein, eukaryotic protein synthesis Initiation factor 4E (eIF-4E) is directly involved in the initiation of protein synthesis in eukaryotic cells. It has been shown that eIF-4E phosphorylation at serines by insulin dependent mechanism coincides with increased protein synthesis in various tissues (1-3). Numerous other extra cellular stimuli also phosphorylate eIF-4E via protein kinase C and insulin-stimulated protamine kinases (cPK). Conversely, dephosphorylation of eIF-4E results in decrease protein synthesis rate. It has been shown that cPK and PKC phosphorylates eIF-4E at Serine²⁰⁹ and threonine²¹⁰. The phosphorylation of serine 209 activates the eIF-4E protein synthesis activity, protein phosphatase 2A (PP2A), a major cytoplasmic serine-, threonine-phosphatase preferentially dephosphorylates insulin-dependent phosphorylated eIF-4E factor at threonine²¹⁰.

The eIF-4E selective antibodies were generated against purified human recombinant eIF-4E protein. The antibodies eIF-4E are affinity purified over immobilized antigen based chromatography. The purified antibodies are stabilized in antibody stabilization buffer containing preservatives. FabGennix Int. Inc., will also provide purified human recombinant eukaryotic initiation factor 4E, please enquire about pricing and availability. Other related antibodies that are carried by FabGennix Int. Inc. include p²¹ activated protein kinase (p65^{pak}), Anti-auto-activated protein kinase, Anti-protein phosphatase 2A inhibitor protein. *FabGennix Inc.* will also conjugate antibodies with fluorescent probes upon request at a reasonable cost.

Catalog #	Host Species	Nature	Cross reactivity	Quantity	price
eIF4E-101AP	Rabbit	Polyclonal antisera	R, M, H, *C, *monk	100 µl	225
PC-eIF4E	Rat/mouse	Western blot controls	n/a	5 appl.	175

R = rat; M = mouse; H = human; C = chicken; monk = monkey ; * not all variants are labeled equally

Immunogen: Purified human recombinant eIF-4E factor (sequence conserved in many species)

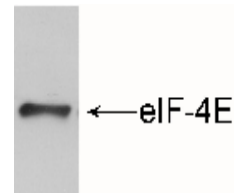
Concentration: eIF4E-101AP IgG concentration 1-1.25 mg/ml in 50% antibody stabilization buffer containing preservatives.

Applications: Antibody eIF4E-101AP is ideal for immunoprecipitation/Western blotting applications for detection of eukaryotic protein synthesis initiation factor 4E in various tissues of several animal species. The dilutions for this antibody is for reference only, investigators are expected to determine the optimal conditions for specific assay in his/her laboratory. Western blotting: > 1:1000
Immunoprecipitation & i.p pull-down assays: > 1:250

Reactivity: This antibody detects a single band of approximately 28 kDa of eIF4E in our eIF4E Western blot positive control (Cat # PC-eIF4E) samples. The antibody does not cross reacts with other proteins from the protein initiation factor family nor with other proteins.

Protocols: Standard protocol for various applications (Western blot; immunoprecipitation and immunohistochemistry) of this antibody is provided with the product specification sheet, however, FabGennix Inc. strongly recommends investigators to optimize conditions for use of this antibody in their laboratories.

Form/Storage: The antiserum is supplied in antibody stabilization buffer with 0.02% thimerosal or merthiolate. The affinity-purified antibodies are purified on antigen-spharose affinity column and supplied as 1-1.25 mg/ml IgG in antibody stabilization buffer containing preservatives with low viscosity and cryogenic properties. For long-term storage of antibodies, store at -20°C. Now these antibodies can be stored at -20°C and used immediately with out thawing. FabGennix Inc. does not recommend storage of very dilute antibody solutions unless they are prepared in specially formulated multi use antibody dilution buffer (Cat # DiluOBuffer). Working solutions of antibodies in DiluOBuffer should be filtered through 0.45µ filter after every use for long-term storage.



References:

1. Kakkinje A., Xiong H et. Al., J. Biol. Chem. 270, 14824-14828, 1995.
2. Manzella J. M., Rychlik W., Rhoades RE., et. Al., J. Biol. Chem., 266, 2383-2389, 1991.
3. Morley S. J., Rau M and Pain V. M., Eur. J. Biochem. 218, 39-48, 1993.

For users who may require large amounts of eIF4E-101AP, please enquire about bulk material discounts.
This Product is for Research Use Only and is NOT intended for use in humans or clinical diagnosis.

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