

Recombinant Phospho-4E-BP1 (Thr37, 46) Monoclonal Antibody

catalog number: **AN300049L**

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity	Human
Immunogen	A synthetic peptide corresponding to residues around (Thr37, 46) of Human Phospho-4E-BP1
Host	Rabbit
Isotype	IgG
Clone	2C5
Purification	Protein A
Buffer	10 mM sodium HEPES, 150 mM NaCl, 100 µg/mL protein protectant, 50% glycerol, pH 7.5

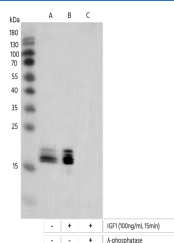
Applications

Recommended Dilution

WB

1:1000-1:10000

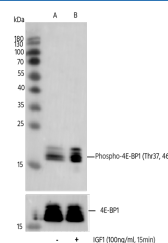
Data



Western blot analysis of extracts from serum-starved HEK293, untreated (line A); treated with IGF1 (100ng/ml, 15min; +) (line B); treated with IGF1 and λ-phosphatase (line C) using Phospho-4E-BP1 (Thr37, 46) Monoclonal Antibody at 1:5000 dilution.

Observed-MW:17 kDa

Calculated-MW:13 kDa



Western blot analysis of extracts from HEK293, untreated (line A) or treated with IGF1 (100ng/ml, 15min; +) (line B), using Phospho-4E-BP1 (Thr37, 46) Monoclonal Antibody at 1:5000 dilution (upper) or 4E-BP1 / EIF4EBP1 Monoclonal Antibody (Cat: AN200088P) at 1:5000 dilution (lower).

Observed-MW:17 kDa

Calculated-MW:13 kDa

Preparation & Storage

Storage

This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.

Shipping

Ice bag

Background

This gene encodes one member of a family of translation repressor proteins. The protein directly interacts with eukaryotic translation initiation factor 4E (eIF4E), which is a limiting component of the multisubunit complex that recruits 40S ribosomal subunits to the 5' end of mRNAs. Interaction of this protein with eIF4E inhibits complex assembly and represses translation. This protein is phosphorylated in response to various signals including UV irradiation and insulin signaling, resulting in its dissociation from eIF4E and activation of mRNA translation.

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