BOSTER BIOLOGICAL TECHNOLOGY
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Anti-EIF4E Monoclonal Antibody

Catalog Number: M00135

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Overview

Product Name	Anti-EIF4E Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-EIF4E Monoclonal Antibody catalog # M00135. Tested in WB, IHC, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IP, IHC, WB
Clonality	Monoclonal AFHI-5
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P06730

Technical Details

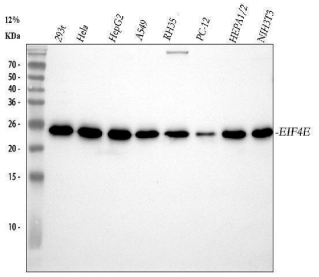
Immunogen	A synthesized peptide derived from human EIF4E eIF4E, a protein modulates translation of maternal mRNAs in early embryos before the onset of zygotic transcription. eIF4E also influences the overall rate of translation. eIF4E binds to the 7 methyl GTP cap structure of eukaryotic mRNAs. Phosphorylation of eIF4E on serine 209 regulates the affinity of this protein for the 7 methyl GTP cap and/or RNA. Phosphorylation also enhances the interaction of eIF4E with eIF4G, which form a complex known as eIF4F. eIF4E phosphorylation is correlated with increased translational rate in a number of cell types.
Isotype	Rabbit IgG
Form	Liquid

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Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB, 1:1000-5000 IHC, 1:50-200 IP, 1:30 FC, 1:40

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Anti-EIF4E Monoclonal Antibody (M00135) Images



Western blot analysis of EIF4E using anti-EIF4E antibody (M00135). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human 293T whole cell lysates, Lane 2: human Hela whole cell lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: human A549 whole cell lysates, Lane 5: rat RH35 whole cell lysates, Lane 6: rat PC-12 whole cell lysates, Lane 7: mouse HEPA1-2 whole cell lysates, Lane 8: mouse NIH/3T3 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-EIF4E antigen affinity purified monoclonal antibody (Catalog # M00135) at 1:100 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for EIF4E at approximately 25 kDa. The expected band size for EIF4E is at 25 kDa.

Anti-EIF4E Monoclonal Antibody

For Research Use Only. Not for use in diagnostic procedures.