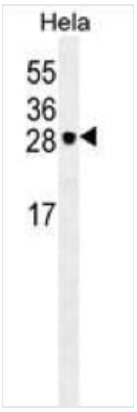
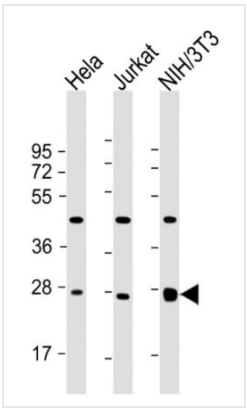
EIF4E Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

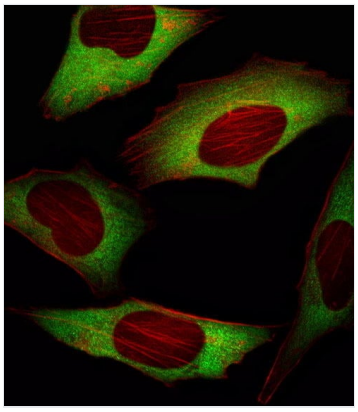
Product Name	EIF4E, Monoclonal Antibody
Full Product Name	EIF4E (EIF4E, EIF4EL1, EIF4F, Eukaryotic translation initiation factor 4E, eIF-4F 25kD subunit, mRNA cap-binding protein) (PE)
Product Gene Name	anti-EIF4E antibody
Product Synonym Names	EIF4E; EIF4EL1; EIF4F; Eukaryotic translation initiation factor 4E; eIF-4F 25kD subunit; mRNA cap-binding protein
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	163CT48.1.9
Host	Mouse
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein G Affinity Chromatography
Specificity	Recognizes EIF4E. Species Crossreactivity: human, mouse
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	27,260 Da
OMIM	133440
3D Structure	ModBase 3D Structure for P06730
Immunogen	Recombinant protein corresponding to EIF4E. Swiss/UniProt Accession: P06730.
Conjugate	PE
Special Handling	Light sensitive
Product Categories/Family for anti-EIF4E antibody	Antibodies; Translation Initiation Factors
Applications Tested/Suitable for anti-EIF4E antibody	FLISA, Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-EIF4E antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-EIF4E antibody	EIF4E 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.
Other Notes	Small volumes of anti-EIF4E antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EIF4E purchase	MBS6121663 is an antibody targeting EIF4E. Also known as EIF4E (EIF4E, EIF4EL1, EIF4F, Eukaryotic translation initiation factor 4E, eIF-4F 25kD subunit, mRNA cap-binding protein) (PE). Reactive in Human, Mouse. Host: Mouse.



Western Blot (WB) of anti-EIF4E antibody
Western Blot analysis in Hela cell line lysates (35ug/lane) using. This demonstrates that detected the EIF4E protein (arrow).



Testing Data of anti-EIF4E antibody
All lanes: (1:2000) Lane 1: Hela whole cell lysate Lane 2: Jurkat whole cell lysate Lane 3: NIH/3T3 whole cell lysate Lysates/proteins at 20ug/lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1:10,000. Predicted band size: 25kD. Blocking/Dilution buffer: 5% NFDM/TBST.



Immunofluorescence (IF) of anti-EIF4E antibody
Fluorescent image of Hela cell stained with. Hela cells were fixed with 4% PFA (20min), permeabilized with Triton X-100 (0.1%, 10mins), then incubated with (1:25, 1hr at 37ºC). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-mouse antibody (green) was used (1:400, 50mins at 37ºC).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1hr at 37ºC). EIF4E immunoreactivity is localized to Cytoplasm significantly.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EIF4E. It may not necessarily be applicable to this product.

NCBI GI #	4503535
NCBI GeneID	1977
NCBI Accession #	NP_001959.1
UniProt Primary Accession #	P06730
UniProt Secondary Accession #	Q96E95; B7Z6V1; D6RCQ6
UniProt Related Accession #	P06730
GenBank Nucleotide #	NM_001968.3
NCBI Official Full Name	eukaryotic translation initiation factor 4E isoform 1
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 4E
NCBI Official Symbol	EIF4E
NCBI Official Synonym Symbols	CBP; EIF4F; AUTS19; EIF4E1; EIF4EL1

UniProt Protein Name	Eukaryotic translation initiation factor 4E
UniProt Synonym Protein Names	eIF-4F 25 kDa subunit; mRNA cap-binding protein
Protein Family	Eukaryotic translation initiation factor
UniProt Gene Name	EIF4E
UniProt Synonym Gene Names	EIF4EL1; EIF4F; eIF-4E; eIF4E
UniProt Entry Name	IF4E_HUMAN
NCBI Protein Information	eukaryotic translation initiation factor 4E; eIF-4E; eIF-4F 25 kDa subunit; mRNA cap-binding protein; eukaryotic translation initiation factor 4E-like 1
UniProt Comments for EIF4E	EIF4E: a protein of the eukaryotic initiation factor 4E family. 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. Phosphorylation increases the ability of the protein to bind to mRNA caps and to form the EIF4F complex. Protein type: Translation initiation; Translation Chromosomal Location of Human Ortholog: 4q23 Cellular Component: mRNA cap complex; stress granule; cytoplasm; eukaryotic translation initiation factor 4F complex; cytosol Molecular Function: protein binding; eukaryotic initiation factor 4G binding; translation initiation factor activity; RNA cap binding Biological Process: translation; viral reproduction; cytokine and chemokine mediated signaling pathway; positive regulation of mitotic cell cycle; regulation of translation; poly(A) tail shortening; mRNA export from nucleus; cellular protein metabolic process; insulin receptor signaling pathway; translational initiation; gene expression; mRNA catabolic process, deadenylation-dependent decay; lung development; G1/S transition of mitotic cell cycle Disease: Autism, Susceptibility To, 19
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