IF4E Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	IF4E, Monoclonal Antibody
Full Product Name	IF4E Mouse mAb
Product Gene Name	anti-IF4E antibody
Product Synonym Names	Eukaryotic translation initiation factor 4E; eIF-4E; eIF4E; eIF-4F 25 kDa subunit; mRNA cap-binding protein; EIF4E; EIF4EL1; EIF4F
Clonality	Monoclonal
Host	Mouse
Species Reactivity	Human, Mouse, Rat
Form/Format	In PBS supplemented with 0.09% (W/V) Sodium Azide.
Purity/Purification	Affinity Purified
OMIM	133440
3D Structure	ModBase 3D Structure for P06730
Immunogen	This IF4E antibody is generated from a mouse immunized with a recombinant protein of human IF4E.
Cellular Localization	Cytoplasm
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-IF4E antibody	Western Blot (WB), Immunocytochemistry (ICC)
Application Notes for anti-IF4E antibody	WB: 1:4000 ICC: 1:25
Related Product Information for anti-IF4E antibody	MBS8556477 is an antibody targeting IF4E. Also known as IF4E Mouse mAb. Reactive in Human, Mouse, Rat. Host: Mouse.
Other Notes	Small volumes of anti-IF4E 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IF4E. It may not necessarily be applicable to this product.

NCBI GI #	194578907
NCBI GeneID	1977
NCBI Accession #	NP_001124150.1
UniProt Primary Accession #	P06730
UniProt Related Accession #	P06730
GenBank Nucleotide #	NP_001124150.1
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
UniProt Protein Name	Eukaryotic translation initiation factor 4E
UniProt Synonym Protein Names	eIF-4F 25 kDa subunit; mRNA cap-binding protein
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
NCBI Summary for IF4E	The protein encoded by this gene is a component of the eukaryotic translation initiation factor 4F complex, which recognizes the 7-methylguanosine cap structure at the 5' end of messenger RNAs. The encoded protein aids in translation initiation by recruiting ribosomes to the 5'-cap structure. Association of this protein with the 4F complex is the rate-limiting step in translation initiation. This gene acts as a proto-oncogene, and its expression and activation is associated with transformation and tumorigenesis. Several pseudogenes of this gene are found on other chromosomes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]
UniProt Comments for IF4E	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
Research Articles on IF4E	**1.** eIF4E is targeted by microRNA-496.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/monoclonal-human-mouse-rat-antibody/if4e/8556477