EIF4E Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EIF4E, Polyclonal Antibody
Full Product Name	EIF4E, Phosphorylated (Ser209) (Eukaryotic Translation Initiation Factor 4E, eIF4E, eIF-4E, mRNA Cap-binding Protein, eIF-4F 25kD Subunit, EIF4EL1, EIF4F) (MaxLight 650)
Product Gene Name	anti-EIF4E antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human EIF4E when phosphorylated at Ser209.
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: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	27.2 kDa (237aa), confirmed by MALDI-TOF
OMIM	133440
3D Structure	ModBase 3D Structure for P06730
Immunogen	Synthetic phosphopeptide corresponding to amino acid residues surrounding Ser209 of human EIF4E (KLH).
Conjugate	MaxLight650
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-EIF4E antibody	Antibodies; Translation Initiation Factors
Applications Tested/Suitable for anti-EIF4E antibody	FLISA, Dot Blot (DB)
Application Notes for anti-EIF4E antibody	FLISA: 1:1,000 Dot Blot: 1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-EIF4E antibody	MBS6475316 is an antibody targeting EIF4E. Also known as EIF4E, Phosphorylated (Ser209) (Eukaryotic Translation Initiation Factor 4E, eIF4E, eIF-4E, mRNA Cap-binding Protein, eIF-4F 25kD Subunit, EIF4EL1, EIF4F) (MaxLight 650). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-EIF4E antibody	1. Rychlik, W., J. Biol. Chem. 262(22), 10434-10437 (1987). 2. Dorfman, J., Genomics 9(4), 785-788 (1991). 3. Pelletier, J., Genomics 10(4), 1079-1082 (1991). 4. Whalen, S.G., J. Biol. Chem. 271(20), 11831-11837 (1996).
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.

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
UniProt Primary Accession #	P06730
UniProt Secondary Accession #	Q96E95; B7Z6V1; D6RCQ6
UniProt Related Accession #	P06730
GenBank Nucleotide #	NM_001968.4
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; eIF-4E; 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
NCBI Summary for EIF4E	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 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

Research Articles on EIF4E	**1.** EIF4E associated signaling pathways are associated with lymphangiogenesis and lymph node metastases of hypopharyngeal cancer.
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