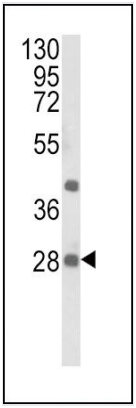
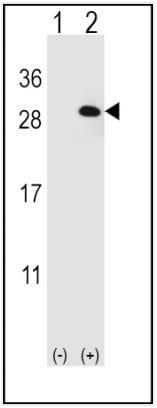
EIF4E2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

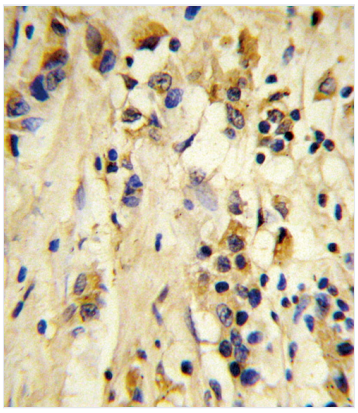
Product Name	EIF4E2, Polyclonal Antibody
Full Product Name	EIF4E2 (Eukaryotic Translation Initiation Factor 4E Type 2, eIF4E Type 2, eIF-4E Type 2, mRNA Cap-binding Protein Type 3, Eukaryotic Translation Initiation Factor 4E-like 3, Eukaryotic Translation Initiation Factor 4E Homologous Protein, mRNA Cap-binding
Product Gene Name	anti-EIF4E2 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 Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human EIF4E2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	27,026 Da
OMIM	605895
3D Structure	ModBase 3D Structure for O60573
Immunogen	Human EIF4E2 recombinant protein.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-EIF4E2 antibody	Antibodies; Translation Initiation Factors
Applications Tested/Suitable for anti-EIF4E2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-EIF4E2 antibody	WB: 1:100-1:500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-EIF4E2 antibody	MBS6475334 is an antibody targeting EIF4E2. Also known as EIF4E2 (Eukaryotic Translation Initiation Factor 4E Type 2, eIF4E Type 2, eIF-4E Type 2, mRNA Cap-binding Protein Type 3, Eukaryotic Translation Initiation Factor 4E-like 3, Eukaryotic Translation Initiation Factor 4E Homologous Protein, mRNA Cap-binding. Reactive in Human. Host: Rabbit.
Product References and Citations for anti-EIF4E2 antibody	1. Rom, E., et al., J. Biol. Chem. 273(21):13104-13109 (1998). 2. Mao, M., et al., Proc. Natl. Acad. Sci. USA 95(14):8175-8180 (1998). 3. Tee, A.R., et al., FEBS Lett. 564(1-2), 58-62 (2004).
Other Notes	Small volumes of anti-EIF4E2 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.



Western Blot (WB) of anti-EIF4E2 antibody
Western blot analysis of EIF4E2 Antibody in NCI-H460 cell line lysates (35ug/lane). EIF4E2 (arrow) was detected using the purified Pab.



Western Blot (WB) of anti-EIF4E2 antibody
Western blot analysis of EIF4E2 (arrow) using rabbit polyclonal EIF4E2 Antibody. 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the EIF4E2 gene.



Immunohistochemistry (IHC) of anti-EIF4E2 antibody
Formalin-fixed and paraffin-embedded human breast carcinoma reacted with EIF4E2 Antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EIF4E2. It may not necessarily be applicable to this product.

NCBI GI #	4757702
NCBI GeneID	9470
NCBI Accession #	NP_004837
UniProt Primary Accession #	O60573
UniProt Secondary Accession #	O75349; B8ZZJ9
UniProt Related Accession #	O60573
GenBank Nucleotide #	NM_004846.2
NCBI Official Full Name	eukaryotic translation initiation factor 4E type 2 isoform A
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 4E family member 2
NCBI Official Symbol	EIF4E2
NCBI Official Synonym Symbols	4EHP; IF4e; 4E-LP; EIF4EL3
UniProt Protein Name	Eukaryotic translation initiation factor 4E type 2

UniProt Synonym Protein Names	Eukaryotic translation initiation factor 4E homologous protein; Eukaryotic translation initiation factor 4E-like 3; eIF4E-like protein 4E-LP; mRNA cap-binding protein 4EHP; mRNA cap-binding protein type 3
Protein Family	Eukaryotic translation initiation factor
UniProt Gene Name	EIF4E2
UniProt Synonym Gene Names	EIF4EL3; eIF-4E type 2; eIF4E type 2
UniProt Entry Name	IF4E2_HUMAN
NCBI Protein Information	eukaryotic translation initiation factor 4E type 2
UniProt Comments for EIF4E2	EIF4E2: 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. eIF4F is a multi-subunit complex, the composition of which varies with external and internal environmental conditions. It is composed of at least eIF4A, eIF4E and eIF4G. eIF4E is also known to interact with other partners. EIF4E2 interacts with EIF4EBP1, EIF4EBP2 and EIF4EBP3 but not with eIF4G. Belongs to the eukaryotic initiation factor 4E family. Protein type: Translation initiation; Translation Chromosomal Location of Human Ortholog: 2q37.1 Cellular Component: mRNA cap complex; cytosol Molecular Function: protein binding; translation factor activity, nucleic acid binding; translation initiation factor activity; ubiquitin protein ligase binding; RNA cap binding Biological Process: in utero embryonic development; cytokine and chemokine mediated signaling pathway; negative regulation of translation; translational initiation
Research Articles on EIF4E2	**1.** DNA damage induces an increase in ARIH1 protein levels and association of ARIH1 with 4EHP. In turn, this causes 4EHP recruitment to the mRNA cap, where it is known to compete with eIF4E.
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/polyclonal-human-antibody/eif4e2/6475334