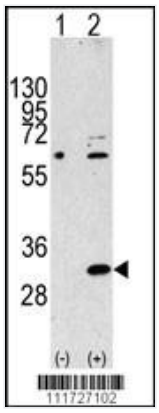
EIF4E2 Antibody – Rabbit Polyclonal

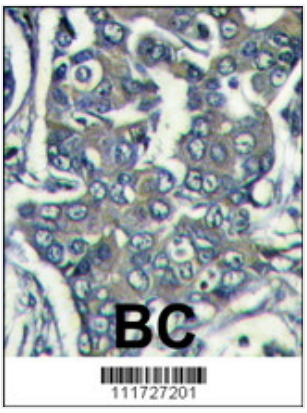
PRODUCT OVERVIEW

Product Name	EIF4E2, Polyclonal Antibody
Full Product Name	EIF4E2, NT (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-bind
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 R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human EIF4E2.
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	27,026 Da
OMIM	605895
3D Structure	ModBase 3D Structure for O60573
Immunogen	Synthetic peptide selected from the N-terminal region of human EIF4E2 (KLH).
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-EIF4E2 antibody	Antibodies; Translation Initiation Factors
Applications Tested/Suitable for anti-EIF4E2 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-EIF4E2 antibody	IHC: 1:50-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-EIF4E2 antibody	MBS6475329 is an antibody targeting EIF4E2. Also known as EIF4E2, NT (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-bind. 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 (N-term) polyclonal antibody (arrow). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the EIF4E2 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (IHC) of anti-EIF4E2 antibody
Formalin-fixed and paraffin-embedded human breast carcinoma reacted with EIF4E2 Antibody (N-term), 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.
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