

# EIF4E2 antibody (Ascites)

Mouse Monoclonal Antibody (Mab)

Catalog # AM1898a

## Product Information

Application	WB, E
Primary Accession	<a href="#">O60573</a>
Other Accession	<a href="#">NP_004837.1</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,K
Clone Names	225CT3.1.3
Calculated MW	28362

## Additional Information

Gene ID	9470
Other Names	Eukaryotic translation initiation factor 4E type 2, eIF-4E type 2, eIF4E type 2, 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, EIF4E2, EIF4EL3
Target/Specificity	This EIF4E2 monoclonal antibody is generated from mouse immunized with EIF4E2 recombinant protein.
Dilution	WB~~1:100~1600 E~~Use at an assay dependent concentration.
Format	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	EIF4E2 antibody (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

Name	EIF4E2 {ECO:0000303   PubMed:15153109, ECO:0000312   HGNC:HGNC:3293}
Function	Recognizes and binds the 7-methylguanosine-containing mRNA cap during an early step in the initiation. Acts as a repressor of translation initiation (PubMed: <a href="#">17368478</a> , PubMed: <a href="#">22751931</a> , PubMed: <a href="#">25624349</a> , PubMed: <a href="#">33581076</a> , PubMed: <a href="#">9582349</a> ). In contrast to EIF4E, it is unable to

bind eIF4G (EIF4G1, EIF4G2 or EIF4G3), suggesting that it acts by competing with EIF4E and block assembly of eIF4F at the cap (By similarity). In P-bodies, component of a complex that promotes miRNA-mediated translational repression (PubMed:[28487484](#)). Involved in virus-induced host response by mediating miRNA MIR34A-induced translational silencing which controls IFNB1 production by a negative feedback mechanism (PubMed:[28487484](#), PubMed:[33581076](#)).

#### Cellular Location

Cytoplasm. Cytoplasm, P-body

## Background

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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.

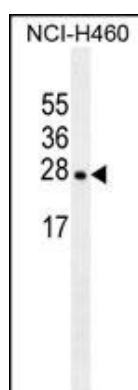
## References

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Venkatesan, K., et al. Nat. Methods 6(1):83-90(2009)  
Rosettani, P., et al. J. Mol. Biol. 368(3):691-705(2007)  
Zuberek, J., et al. RNA 13(5):691-697(2007)  
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :

## Images

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EIF4E2 antibody (Cat. #AM1898a) western blot analysis in NCI-H460 cell line lysates (35µg/lane). This demonstrates the EIF4E2 antibody detected the EIF4E2 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.