

EIF4E2 Antibody
Mouse Monoclonal Antibody (Mab)
Catalog # AM1898b**Specification**

EIF4E2 Antibody - Product Information

Application	WB,E
Primary Accession	O60573
Other Accession	NP_004837.1
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,K
Calculated MW	28362

EIF4E2 Antibody - 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~~1:500~1000

E~~Use at an assay dependent concentration.

Format

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

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 is for research use only and not for use in diagnostic or therapeutic procedures.

EIF4E2 Antibody - 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:[17368478](#), PubMed:[22751931](#), PubMed:[25624349](#), PubMed:[33581076](#), PubMed:[9582349](#)). 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

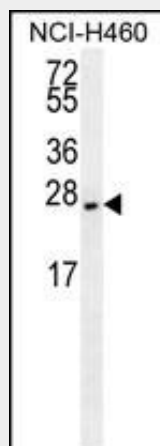
Cytoplasm. Cytoplasm, P-body

EIF4E2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

EIF4E2 Antibody - Images



EIF4E2/MB10227 antibody (Cat. #AM1898b) western blot analysis in NCI-H460 cell line lysates (35µg/lane). This demonstrates the EIF4E2/MB10227 antibody detected the EIF4E2/MB10227 protein (arrow).

EIF4E2 Antibody - Background

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.

EIF4E2 Antibody - References

Rose, J. Phd, et al. Mol. Med. (2010) In press :

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) :