10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-EIF4E2 Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI2027

Product Information

Application	WB, FC
Primary Accession	O60573
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	24GB8140
Calculated MW	28362
Gene Name	EIF4E2
Aliases	EIF4E2; Eukaryotic Translation Initiation Factor 4E Family Member 2; Eukaryotic Translation Initiation Factor 4E-Like 3; EIF4EL3; IF4e; 4EHP; Eukaryotic Translation Initiation Factor 4E Homologous Protein; Eukaryotic Translation Initiation Factor 4E Type 2; MRNA Cap-Binding Protein Type 3; EIF4E-Like Protein 4E-LP; EIF-4E Type 2; H4EHP; EIF4E-Like Cap-Binding Protein; MRNA Cap-Binding Protein 4EHP; EIF4E Type 2; 4E-LP
Immunogen	Recombinant protein of human EIF4E2

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, h4EHP, mRNA cap-binding protein type 3, EIF4E2 {ECO:0000303|PubMed:15153109, ECO:0000312|HGNC:HGNC:3293}

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

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