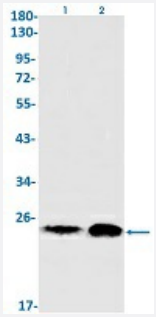
RecomAb™

EIF4E recombinant monoclonal antibody, clone R08-1C5

Catalog # RAB02307 Size 100 uL

Applications



Western Blot

Western Blot analysis of Lane 1: C6 and Lane 2: 3T3 lysates with EIF4E recombinant monoclonal antibody, clone R08-1C5 (Cat # RAB02307).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human EIF4E.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human EIF4E.
Theoretical MW (kDa)	Calculated MW: 25 kD
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence(1:50-1:200) Immunoprecipitation(1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)

Storage Instruction	Store at -20 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot

  Western Blot analysis of Lane 1: C6 and Lane 2: 3T3 lysates with EIF4E recombinant monoclonal antibody, clone R08-1C5 (Cat # RAB02307).

- Immunofluorescence

- Immunoprecipitation

Gene Info — EIF4E

Entrez GeneID	1977
Protein Accession#	P06730
Gene Name	EIF4E
Gene Alias	CBP, EIF4E1, EIF4EL1, EIF4F, MGC111573
Gene Description	eukaryotic translation initiation factor 4E
Omim ID	133440
Gene Ontology	Hyperlink
Gene Summary	All eukaryotic cellular mRNAs are blocked at their 5-prime ends with the 7-methylguanosine cap s tructure, m7GpppX (where X is any nucleotide). This structure is involved in several cellular proce sses including enhanced translational efficiency, splicing, mRNA stability, and RNA nuclear export . EIF4E is a eukaryotic translation initiation factor involved in directing ribosomes to the cap struct ure of mRNAs. It is a 24-kD polypeptide that exists as both a free form and as part of a multiprotei n complex termed EIF4F. The EIF4E polypeptide is the rate-limiting component of the eukaryotic t ranslation apparatus and is involved in the mRNA-ribosome binding step of eukaryotic protein syn thesis. The other subunits of EIF4F are a 50-kD polypeptide, termed EIF4A (see MIM 601102), th at possesses ATPase and RNA helicase activities, and a 220-kD polypeptide, EIF4G (MIM 6004 95) (Rychlik et al., 1987 [PubMed 3469651]).[supplied by OMIM
Other Designations	eIF-4F 25 kDa subunit|eukaryotic translation initiation factor 4E-like 1|mRNA cap-binding protein

Pathway

- Insulin signaling pathway
- mTOR signaling pathway

Disease

- Tobacco Use Disorder