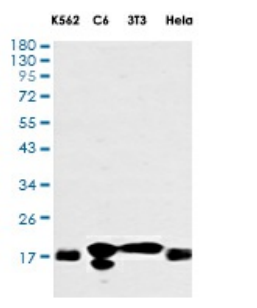
RecomAb™

EIF4EBP1 recombinant monoclonal antibody, clone R03-5C7

Catalog # RAB01233 Size 100 uL

Applications



Western Blot

Western blot analysis of Phospho-eIF4EBP1 (Thr46) in K562, C6, 3T3, Hela lysates using Phospho-4E BP1 (Thr46) antibody.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human EIF4EBP1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to residues surrounding Thr45 of human eIF4EBP1.
Theoretical MW (kDa)	Calculated MW: 13 kD
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (CHO) expression system
Purification	Affinity purification
Isotype	IgG

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Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) Immunoprecipitation Western Blot 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 4°C. For longer storage, aliquot and 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

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Immunoprecipitation
- Western Blot

Western blot analysis of Phospho-eIF4EBP1 (Thr46) in K562, C6, 3T3, Hela lysates using Phospho-4E BP1 (Thr46) antibody.

Gene Info — EIF4EBP1

Entrez GeneID	1978
Protein Accession#	Q13541
Gene Name	EIF4EBP1
Gene Alias	4E-BP1, 4EBP1, BP-1, MGC4316, PHAS-I
Gene Description	eukaryotic translation initiation factor 4E binding protein 1
Omim ID	602223
Gene Ontology	Hyperlink
Gene Summary	This gene encodes one member of a family of translation repressor proteins. The protein directly i nteracts with eukaryotic translation initiation factor 4E (eIF4E), which is a limiting component of th e multisubunit complex that recruits 40S ribosomal subunits to the 5' end of mRNAs. Interaction of this protein with eIF4E inhibits complex assembly and represses translation. This protein is phosp horylated in response to various signals including UV irradiation and insulin signaling, resulting in i ts dissociation from eIF4E and activation of mRNA translation. [provided by RefSeq

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Other Designations	eIF4E-binding protein 1|phosphorylated heat- and acid-stable protein regulated by insulin 1

Pathway

- Acute myeloid leukemia
- ErbB signaling pathway
- Insulin signaling pathway
- mTOR signaling pathway

Disease

- Alzheimer disease
- Genetic Predisposition to Disease
- Multiple System Atrophy
- Obesity

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