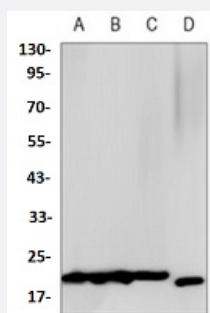


RecomAb™

EIF4EBP1 recombinant monoclonal antibody

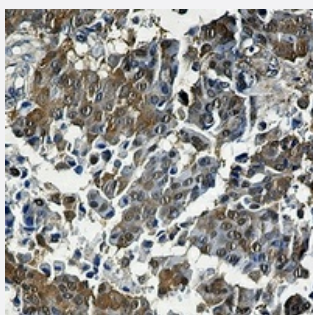
Catalog # RAB02491 Size 100 uL

Applications



Western Blot

Western blot analysis of mouse heart (A), Jurkat (B), C6 (C), CHOK1 (D) whole cell lysates with 4EBP1 recombinant monoclonal antibody (Cat # RAB02491).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of human breast carcinoma formalin fixed paraffin embedded tissue section using 4EBP1 recombinant monoclonal antibody (Cat # RAB02491). The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.9). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human EIF4EBP1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide of human eIF4EBP1.
Theoretical MW (kDa)	18
Reactivity	Hamster, Human, Mouse, Rat

Specificity	Recognizes endogenous levels of 4EBP1 protein.
Form	Liquid
Purification	Immunogen affinity chromatography
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50-1:100) Immunoprecipitation(1:10-1:50) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50mM Tris-Glycine, pH 7.4 (0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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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 interacts with eukaryotic translation initiation factor 4E (eIF4E), which is a limiting component of the 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 phosphorylated in response to various signals including UV irradiation and insulin signaling, resulting in its dissociation from eIF4E and activation of mRNA translation. [provided by RefSeq]

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](#)