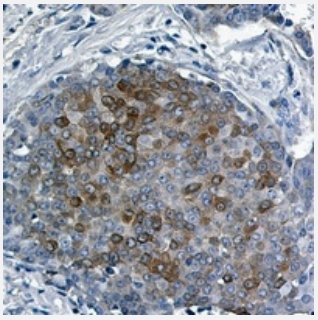
RecomAb™

EIF4EBP1 (Phospho T46) recombinant monoclonal antibody

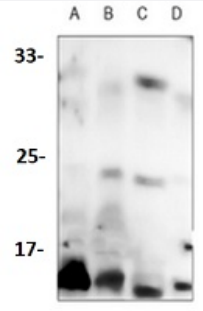
Catalog # RAB02454 Size 100 uL

Applications



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

Immunohistochemical analysis of human breast carcinoma formalin fixed paraffin embedded tissue section using 4EBP1 (Phospho T46) recombinant monoclonal antibody (Cat # RAB02454). The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.7). 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.



Western Blot (Cell lysate)

Western blot analysis of K562 (A), C6 (B), NIH3T3 (C), Hela (D) whole cell lysates with 4EBP1 (Phospho T46) recombinant monoclonal antibody (Cat # RAB02454).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human EIF4EBP1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surroundin g Thr45 of human eIF4EBP1.
Theoretical MW (kDa)	15

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Reactivity	Human, Mouse, Rat
Specificity	Recognizes endogenous levels of 4EBP1 (pT46) protein.
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
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 shoul d be handled by trained staff only.

Applications

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

  Immunohistochemical analysis of human breast carcinoma formalin fixed paraffin embedded tissue section using 4EBP1 (Phospho T46) recombinant monoclonal antibody (Cat # RAB02454). The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.7). 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.

- Immunoprecipitation

- Western Blot (Cell lysate)

  Western blot analysis of K562 (A), C6 (B), NIH3T3 (C), Hela (D) whole cell lysates with 4EBP1 (Phospho T46) recombinant monoclonal antibody (Cat # RAB02454).

Gene Info — EIF4EBP1

Entrez GeneID	1978

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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
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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