# [KD Validated] eIF4EBP1 Rabbit mAb

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Catalog No.: A24691 Recombinant 4 Publications

## **Basic Information**

#### **Observed MW**

15-20kDa

#### **Calculated MW**

13kDa

## Category

Primary antibody

### **Applications**

WB,IHC-P,IF/ICC,ELISA

#### **Cross-Reactivity**

Human, Mouse, Rat

#### CloneNo number

ARC60753

## **Background**

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.

## **Recommended Dilutions**

**WB** 1:1000 - 1:4000

1:50 - 1:200 **IHC-P** 

IF/ICC 1:50 - 1:200

Recommended starting **ELISA** 

> concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

# **Immunogen Information**

**Gene ID Swiss Prot** 1978 Q13541

#### **Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

### **Synonyms**

BP-1; 4EBP1; 4E-BP1; PHAS-I; eIF4EBP1

## **Contact**

| 6                    | 400-999-6126              |
|----------------------|---------------------------|
| $\bowtie$            | cn.market@abclonal.com.cn |
| $\overline{\bullet}$ | www.abclonal.com.cn       |

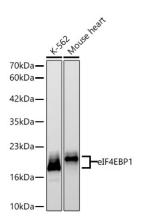
## **Product Information**

| Source | Isotype | Purification          |
|--------|---------|-----------------------|
| Rabbit | IgG     | Affinity purification |

#### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.



Western blot analysis of various lysates using [KD Validated] eIF4EBP1 Rabbit mAb (A24691) at 1:1000 dilution incubated overnight at 4°C.

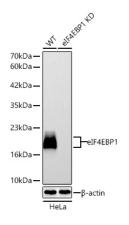
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 20s.

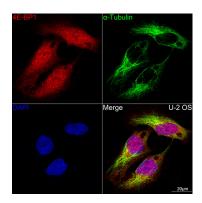


Western blot analysis of lysates from wild type (WT) and eIF4EBP1 knockdown (KD) HeLa cells using [KD Validated] eIF4EBP1 Rabbit mAb (A24691) at 1:1000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane.

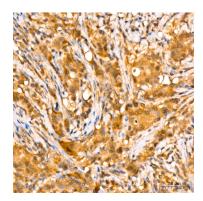
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

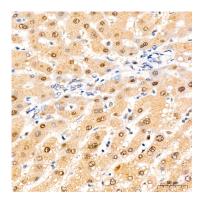
Exposure time: 20s.



Confocal imaging of U-2 OS cells using [KD Validated] eIF4EBP1 Rabbit mAb (A24691, at dilution of 1:200) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with  $\alpha\text{-}$ Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488conjugated Goat Anti-Mouse IgG (H+L) (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunohistochemistry analysis of paraffinembedded Human breast cancer tissue using [KD Validated] eIF4EBP1 Rabbit mAb (A24691) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Human liver tissue using [KD Validated] eIF4EBP1 Rabbit mAb (A24691) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

# **Validation Data**



Immunohistochemistry analysis of paraffinembedded Mouse fat tissue using [KD Validated] eIF4EBP1 Rabbit mAb (A24691) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.