

Basic Information

Product Name	Anti-4EBP1/EIF4EBP1 Antibody		
Gene Name	EIF4EBP1		
Source	Rabbit		
Clonality	Polyclonal		
Isotype	IgG		
Species Reactivity	human, mouse, rat		
Tested Application	WB, IHC, FCM		
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.		
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human EIF4EBP1, which shares 75% and 81.2% amino acid (aa) sequence identity with mouse and rat EIF4EBP1, respectively.		
Concentration	500 ug/ml		
Purification	Immunogen affinity purified.		
Observed MW	17 kDa		
Dilution Ratios	Western blot (WB):	1:500-2000	
	Immunohistochemistry (IHC):	1:50-400	
	Flow Cytometry (Fixed):	1:50-200	

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

Eukaryotic translation initiation factor 4E-binding protein 1 (also known as 4E-BP1) is a protein that in humans is encoded by the EIF4EBP1 gene. 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.

Reference

Anti-4EBP1/EIF4EBP1 Antibody被引用在3文献中。

Selected Validation Data

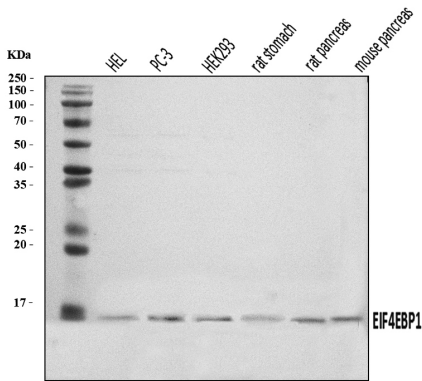


Figure 1. Western blot analysis of anti- EIF4EBP1 Antibody (A00968-1). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: HEK whole cell lysates,

Lane 2: PC-3 whole cell lysates,

Lane 3: HEK293 whole cell lysates,

Lane 4: rat stomach tissue lysates,

Lane 5: rat pancreas tissue lysates,

Lane 6: mouse pancreas tissue lysates.

Use rabbit anti- EIF4EBP1 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for EIF4EBP1 at approximately 17KD. The expected band size for EIF4EBP1 is at 13KD.

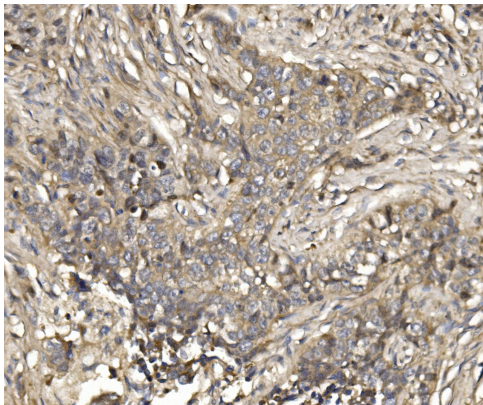


Figure 2. IHC analysis using anti- EIF4EBP1 Antibody (A00968-1). detected in paraffin-embedded section of human lung cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

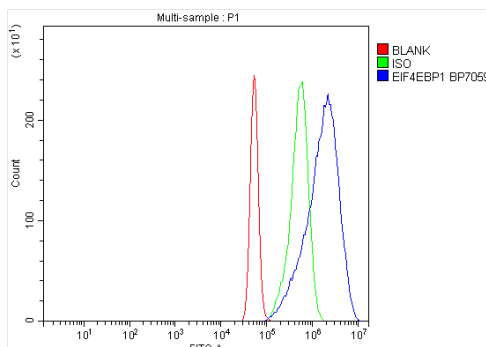


Figure 3. Flow cytometry analysis of A431 cell (1:100) DyLight 488 conjugated goat anti- rabbit IgG(blue) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).

Product datasheet

Anti-4EBP1/EIF4EBP1 Antibody

Catalog Number: **A00968-1**

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