For Research Use Only

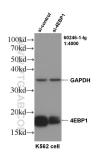
## 4EBP1 Monoclonal antibody

Catalog Number:60246-1-lg Featured Product 62 Publications

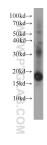


Basic Information	Catalog Number: 60246-1-lg	GenBank Accession Number: BC004459		Purification Method: Protein A purification	
	Size:	GeneID (NCBI): 1978 UNIPROT ID: Q13541 Full Name: eukaryotic translation initiation factor 4E binding protein 1 Calculated MW: 118 aa, 12 kDa Observed MW: 15-24 kDa		CloneNo.:	
	150ul, Concentration: 1000 ug/ml by			2C3F3 Recommended Dilutions: WB 1:1000-1:4000 IHC 1:1000-1:4000 IF/ICC 1:20-1:200	
	Nanodrop; Source:				
	Mouse				
	Isotype:				
	lgG2b				
	Immunogen Catalog Number: AG18985				
Applications	Tested Applications:	F	Positive Controls: WB : K-562 cells, HCT 116 cells, K562, NCI-H1299 cells		
	WB, IHC, IF/ICC, ELISA	١			
	Cited Applications: WB, IHC, IF	IHC : humar cancer tissu		pancreas cancer tissue, human colon	
	Species Specificity: human, pig	I	F/ICC : HeLa	cells,	
	Cited Species: human, chicken				
	Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternativ	vely, antigen			
	retrieval may be performed w buffer pH 6.0	ith citrate			
Background Information	<b>buffer pH 6.0</b> Eukaryotic translation initiation factor the translation of a subset of mRNA b the eIF4F complex. The eIF4F facilita and then initiates cap-dependent tran factors, hormones and other stimuli th forms of 4EBP1, alpha, beta and gamm	or 4E-binding protein 1(4E y competing with eIF4G f tes the recruitment of oth islation.4EBP1 also medi hat signal through the MA na.typical pattern seen o s muscle. Three distinct b of ; 20 kDa and the slowes	for binding to ner translatio ates the regu IP kinase and n Western bl ands are note st migrating l	n initiation factors to form the complex lation of protein translation by growth I mTORC 1 pathways. There are three ots for phosphorylated heat-acid stable ed, with the most rapidly migrating ban	
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Notable Publications	buffer pH 6.0Eukaryotic translation initiation factorthe translation of a subset of mRNA bethe elF4F complex. The elF4F facilitaand then initiates cap-dependent translationfactors, hormones and other stimuli thforms of 4EBP1, alpha, beta and gammerprotein 4EBP1 from rat gastrocnemiushaving an apparent molecular mass ofdesignated by convention asalpha, beAuthorPubCefan Zhou329Minfen Zhang345Hai-Feng Wang302	or 4E-binding protein 1(4E y competing with eIF4G f tes the recruitment of oth islation.4EBP1 also medi- nat signal through the MA na.typical pattern seen o is muscle. Three distinct b of; 20 kDa and the slowes eta and gamma. (PMID: 10 med ID Journal 72302 Autopha 20393 Aging (A	for binding to ner translatio ates the regu P kinase and n Western bl ands are noto st migrating l 0913029)	PelF4E, thus preventing the assembly o on initiation factors to form the complex- ilation of protein translation by growth d mTORC1 pathways. There are three ots for phosphorylated heat-acid stable ed, with the most rapidly migrating ban band of; 24 kDa. The 3 bands are Application WB WB	
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Background Information Notable Publications Storage *** 20ul sizes contain 0.1% BSA	buffer pH 6.0         Eukaryotic translation initiation factor         the translation of a subset of mRNA by         the elF4F complex. The elF4F facilita         and then initiates cap-dependent translation         factors, hormones and other stimuli th         forms of 4EBP1, alpha, beta and gammer         protein 4EBP1 from rat gastrocnemius         having an apparent molecular mass of         designated by convention asalpha, be         Author       Pub         Cefan Zhou       329         Minfen Zhang       345         Hai-Feng Wang       302         Storage:       Storage Euffer:	or 4E-binding protein 1(4E y competing with eIF4G f tes the recruitment of oth islation.4EBP1 also medi. hat signal through the MA na.typical pattern seen o s muscle. Three distinct b of ; 20 kDa and the slowes eta and gamma. (PMID: 10 med ID Journal 72302 Autopha 20393 Aging (A 18751 Gene er shipment.	for binding to ner translatio ates the regu P kinase and n Western bl ands are noto st migrating l 0913029)	PelF4E, thus preventing the assembly of on initiation factors to form the complex ilation of protein translation by growth d mTORC 1 pathways. There are three ots for phosphorylated heat-acid stables ed, with the most rapidly migrating ban band of; 24 kDa. The 3 bands are Application WB WB	

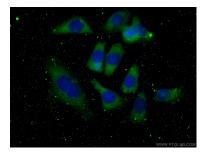
## Selected Validation Data



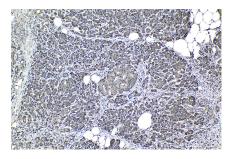
WB result of 4EBP1 antibody (60246-1-lg, 1:4000) with si-Control and si-4EBP1 transfected K562 cells.



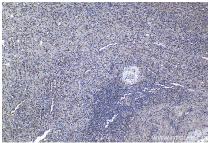
K-562 cells were subjected to SDS PAGE followed by western blot with 60246-1-1g (4EBP1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



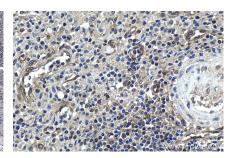
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 60246-1-Ig(4EBP1 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffinembedded human pancreas cancer tissue slide using 60246-1-1g (4EBP1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 60246-1-Ig (4EBP1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 60246-1-1g (4EBP1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).