EIF4EBP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EIF4EBP1, Polyclonal Antibody
Full Product Name	EIF4EBP1, Phosphorylated (Thr36) (Eukaryotic Translation Initiation Factor 4E-binding Protein 1, 4E-BP1, eIF4E-binding Protein 1, Phosphorylated Heat-and Acid-stable Protein Regulated by Insulin 1, PHAS-I) (AP)
Product Gene Name	anti-EIF4EBP1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human EIF4EBP1 phosphorylated at Thr36.
Preparation and Storage	May be stored at 4 degree C for short-term only. Do not freeze alkaline phosphatase conjugates which could result in a substantial loss of enzymatic activity. Light sensitive. Aliquots are stable for at least 6 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	12,580 Da
OMIM	602223
3D Structure	ModBase 3D Structure for Q13541
Immunogen	Synthetic phosphopeptide corresponding to amino acid residues surrounding Thr36 of human EIF4EBP1 (KLH).
Conjugate	AP
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-EIF4EBP1 antibody	Antibodies; Translation Initiation Factors
Applications Tested/Suitable for anti-EIF4EBP1 antibody	ELISA (EIA), Dot Blot (DB)
Application Notes for anti-EIF4EBP1 antibody	ELISA: 1:1,000 Dot Blot: 1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-EIF4EBP1 antibody	MBS6269275 is an antibody targeting EIF4EBP1. Also known as EIF4EBP1, Phosphorylated (Thr36) (Eukaryotic Translation Initiation Factor 4E-binding Protein 1, 4E-BP1, eIF4E-binding Protein 1, Phosphorylated Heat-and Acid-stable Protein Regulated by Insulin 1, PHAS-I) (AP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-EIF4EBP1 antibody	1. Fonseca, B.D., J. Biol. Chem. 282(34), 24514-24524 (2007). 2. Armengol, G., Cancer Res. 67(16), 7551-7555 (2007).
Other Notes	Small volumes of anti-EIF4EBP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EIF4EBP1. It may not necessarily be applicable to this product.

NCBI GI #	4758258
NCBI GeneID	1978
NCBI Accession #	NP_004086
UniProt Primary Accession #	Q13541
UniProt Secondary Accession #	Q6IBN3; B2R502; D3DSW8
UniProt Related Accession #	Q13541
GenBank Nucleotide #	NM_004095.3
NCBI Official Full Name	eukaryotic translation initiation factor 4E-binding protein 1
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 4E binding protein 1
NCBI Official Symbol	EIF4EBP1
NCBI Official Synonym Symbols	BP-1; 4EBP1; 4E-BP1; PHAS-I
UniProt Protein Name	Eukaryotic translation initiation factor 4E-binding protein 1
UniProt Synonym Protein Names	Phosphorylated heat- and acid-stable protein regulated by insulin 1
Protein Family	Eukaryotic translation initiation factor 4E-binding protein
UniProt Gene Name	EIF4EBP1
UniProt Synonym Gene Names	4E-BP1; eIF4E-binding protein 1; PHAS-I
UniProt Entry Name	4EBP1_HUMAN
NCBI Protein Information	eukaryotic translation initiation factor 4E-binding protein 1; eIF4E-binding protein 1; phosphorylated heat- and acid-stable protein regulated by insulin 1
NCBI Summary for EIF4EBP1	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, Jul 2008]
UniProt Comments for EIF4EBP1	4E-BP1: binds to eIF4E, preventing its assembly into the EIF4F complex and inhibiting cap-dependent translation. Phosphorylation of 4E-BP1 disrupts this binding, activating cap-dependent translation. Mediates the regulation of protein translation by hormones, growth factors and other stimuli that signal through the PI3 kinase pathway. Protein type: Translation; Translation initiation Chromosomal Location of Human Ortholog: 8p12 Cellular Component: nucleoplasm; protein complex; cytoplasm; cytosol Molecular Function: protein binding; translation repressor activity; eukaryotic initiation factor 4E binding Biological Process: negative regulation of translational initiation; response to ethanol; cellular protein metabolic process; TOR signaling pathway; translation; insulin receptor signaling pathway; translational initiation; gene expression; positive regulation of mitotic cell cycle; negative regulation of protein complex assembly; G1/S transition of mitotic cell cycle; lung development
Research Articles on EIF4EBP1	**1.** Overexpression of phosphorylated 4E-binding protein 1 is associated with lymph node metastasis in hilar cholangiocarcinoma

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