EIF4EBP1 (phospho T36) polyclonal antibody

Catalog # PAB8095 Size 400 uL

Applications



Dot Blot (Peptide)

Dot blot analysis of EIF4EBP1 (phospho T36) polyclonal antibody (Cat # PAB8095) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5 ug/mL.

Specification	
Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of EIF4EBP1.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding T36 of hum an EIF4EBP1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein A purification
Recommend Usage	ELISA (1:1000) Dot Blot (1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

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Product Information

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Dot Blot (Peptide)

Dot blot analysis of EIF4EBP1 (phospho T36) polyclonal antibody (Cat # PAB8095) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5 ug/mL.

Gene Info — EIF4EBP1	
Entrez GenelD	<u>1978</u>
Protein Accession#	<u>NP_004086</u>
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	<u>602223</u>
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	elF4E-binding protein 1 phosphorylated heat- and acid-stable protein regulated by insulin 1

Publication Reference

• <u>4E-binding protein 1: a key molecular "funnel factor" in human cancer with clinical implications.</u>

Armengol G, Rojo F, Castellvi J, Iglesias C, Cuatrecasas M, Pons B, Baselga J, Ramon y Cajal S. Cancer Research 2007 Aug; 67(16):7551.

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Product Information

 PRAS40 is a target for mammalian target of rapamycin complex 1 and is required for signaling downstream of this complex.

Fonseca BD, Smith EM, Lee VH, MacKintosh C, Proud CG.

The Journal of Biological Chemistry 2007 Jun; 282(34):24514.

Pathway

- Acute myeloid leukemia
- ErbB signaling pathway
- Insulin signaling pathway
- mTOR signaling pathway

Disease

- <u>Alzheimer disease</u>
- Genetic Predisposition to Disease
- <u>Multiple System Atrophy</u>
- <u>Obesity</u>