Datasheet for ABIN6241036

anti-eIF4EBP1 antibody (pSer111)

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Overview

Quantity:	400 µL
Target:	eIF4EBP1 (EIF4EBP1)
Binding Specificity:	pSer111
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This eIF4EBP1 antibody is un-conjugated
Application:	Dot Blot (DB)

Product Details

Immunogen:	This EIF4EBP1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S111 of human EIF4EBP1.
Clone:	RB13351
Isotype:	Ig Fraction
Predicted Reactivity:	M, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	eIF4EBP1 (EIF4EBP1)
Alternative Name:	EIF4EBP1 (EIF4EBP1 Products)

Target Details

Background:	EIF4EBP1 is a member of a family of translation repressor proteins. This 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 EIF4EBP1 with eIF4E inhibits complex assembly and represses translation. EIF4EBP1 is phosphorylated in response to various signals including UV irradiation and insulin signaling, resulting in its dissociation from eIF4E and activation of mRNA translation.
Molecular Weight:	12580
NCBI Accession:	NP_004086
UniProt:	Q13541
Pathways:	MAPK Signaling, PI3K-Akt Signaling, RTK Signaling, AMPK Signaling, Regulation of Cell Size, BCR Signaling

Application Details

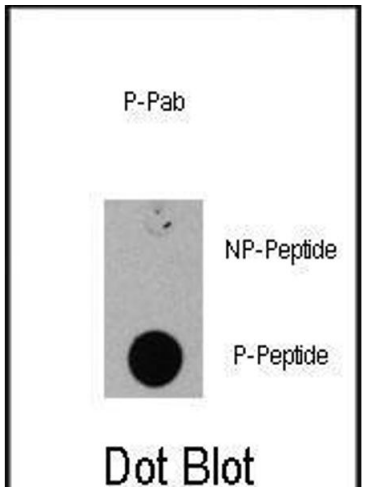
Application Notes:	DB: 1:500
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

Publications

Product cited in:	Romasko, Amarnath, Midic, Latham: "Association of maternal mRNA and phosphorylated EIF4EBP1 variants with the spindle in mouse oocytes: localized translational control supporting female meiosis in mammals." in: **Genetics**, Vol. 195, Issue 2, pp. 349-58, (2014) (PubMed).



Dot Blot

Image 1. Dot blot analysis of anti-EIF4EBP1-p Phospho-specific Pab (R) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5 µg per ml.