

Datasheet for ABIN7138854

anti-eIF4EBP1 antibody (pThr45)**2** Images[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	eIF4EBP1 (EIF4EBP1)
Binding Specificity:	pThr45
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This eIF4EBP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	Peptide sequence around phosphorylation site of threonine 45 (S-T-T(p)-P-G) derived from Human 4E-BP1.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using

Target Details

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

Target Details

Background:	Background: 4E-BP1 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. Gingras AC, et al. (1998) Genes Dev 12(4): 502-513. Brugarolas J, et al. (2004) Genes Dev 18(23): 2893-2904. Kumar V, et al. (2000) EMBO J 19(5): 1087-1097. Moody CA, et al. (2005) J Virol 79(9): 5499-5506. Burnett PE, et al. (1998) Proc Natl Acad Sci U S A 95(4): 1432-1437. Aliases: 4E-BP1 antibody, 4EBP1 antibody, 4EBP1_HUMAN antibody, BP 1 antibody, eIF4E binding protein 1 antibody, eIF4E-binding protein 1 antibody, Eif4ebp1 antibody, Eukaryotic translation initiation factor 4E-binding protein 1 antibody, PHAS-I antibody, PHASI antibody, Phosphorylated heat- and acid-stable protein regulated by insulin 1 antibody
UniProt:	Q13541
Pathways:	MAPK Signaling , PI3K-Akt Signaling , RTK Signaling , AMPK Signaling , Regulation of Cell Size , BCR Signaling

Application Details

Application Notes:	WB:1:500-1:1000, IHC:1:50-1:100,
Restrictions:	For Research Use only

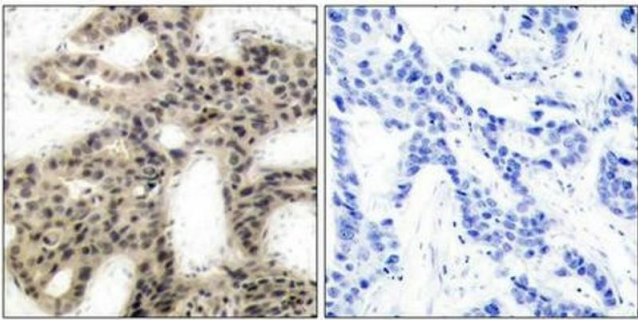
Handling

Format:	Liquid
Buffer:	Supplied at 1.0 mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

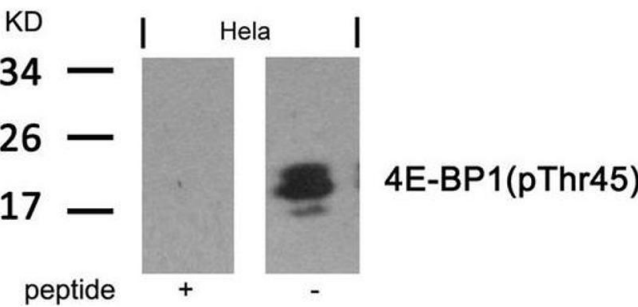
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using 4E-BP1(Phospho-Thr45) Antibody(left) or the same antibody preincubated with blocking peptide(right).



Western Blotting

Image 2. Western blot analysis of extracts from Hela cells using 4E-BP1(Phospho-Thr45) Antibody and the same antibody preincubated with blocking peptide.