

Datasheet for ABIN965484
anti-eIF4EBP1 antibody



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2 Publications

Overview

Quantity:	0.1 mg
Target:	eIF4EBP1 (EIF4EBP1)
Reactivity:	Human
Host:	Please inquire
Clonality:	Monoclonal
Conjugate:	This eIF4EBP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Isotype:	IgG1
Specificity:	Ni-NTA purified truncated recombinant 4E-BP1 expressed in E. Coli strain BL21 (DE3).
Purification:	Antibodies are purified by protein A affinity chromatography

Target Details

Target:	eIF4EBP1 (EIF4EBP1)
Alternative Name:	4E-BP1 (EIF4EBP1 Products)
Background:	4E-BP1(eukaryotic translation Initiation Factor 4E Binding Protein 1),also called ELF4EBP1/BP1/PHAS-I ,which is located on chromosome 8p12, with 118-amino acid protein (about 13kDa). Binding of eIF4EBP1 to eIF4E is reversible and is dependent on the phosphorylation status of eIF4EBP1. Non phosphorylated eIF4EBP1 will bind strongly to eIF4E while(24kDa), the phosphorylated form will not. Akt, TOR, MAP kinase, S6 kinase, and Cdc2 are

Target Details

known kinases capable of inactivating eIF4EBP1 binding to eIF4E by phosphorylating either threonines 35, 45, 69 or serine 64. Although, not all phosphorylation events equally block the eIF4EBP1-eIF4E interaction.

Gene ID: 1978

Pathways: [MAPK Signaling](#), [PI3K-Akt Signaling](#), [RTK Signaling](#), [AMPK Signaling](#), [Regulation of Cell Size](#), [BCR Signaling](#)

Application Details

Application Notes: Western Blot: 1: 500- 1: 1,000
IHC(P): 1: 500- 1: 1,000
ELISA: Propose dilution 1: 10,000.
Determining optimal working dilutions by titration test.

Restrictions: For Research Use only

Handling

Storage: -20 °C

Publications

Product cited in: Fadden, Haystead, Lawrence: "Identification of phosphorylation sites in the translational regulator, PHAS-I, that are controlled by insulin and rapamycin in rat adipocytes." in: **The Journal of biological chemistry**, Vol. 272, Issue 15, pp. 10240-7, (1997) ([PubMed](#)).

Pause, Belsham, Gingras, Donzé, Lin, Lawrence, Sonenberg: "Insulin-dependent stimulation of protein synthesis by phosphorylation of a regulator of 5'-cap function." in: **Nature**, Vol. 371, Issue 6500, pp. 762-7, (1994) ([PubMed](#)).