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## **4E-BP1 (9E1) Antibody**

**Subcategory:** Mouse Monoclonal Antibody

**Cat. No.:** 252680

**Unit:** 0.1 ml

**Description:**

4E-BP1 (Eukaryotic translation Initiation Factor 4E Binding Protein 1) is a 118-amino acid protein (~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 the phosphorylated form will not. Akt, TOR, MAP kinase, S6 kinase and Cdc2 are 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.

**Isotype:** Mouse IgG1

**Applications:** WB

**Species Reactivity:** H

**Format:** Each vial contains 0.1 ml ascitic fluid with 0.03% sodium azide.

**Alternate Names:** 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; EIF4;EBP1

**Accession No.:** Q13541

**Antigen:** Purified recombinant fragment of 4EBP1 expressed in *E. coli*.

**Application Notes:** WB: 1:500-1:2000

**Storage:** Store at 4°C for short term use only. Store at -20°C for storage over 1 month. Product is guaranteed 6 months from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.