

Recombinant

DGRmAb®

4E BP1 (DGR14165) Rabbit mAb

db11599

Package : 10µL 20µL 50µL 100µL

Product Name : 4E BP1 (DGR14165) Rabbit mAb**Cat.No.:** db11599**Synonyms** : BP-1; 4EBP1; 4E-BP1; PHAS-I**Application** : WB, IHC-P, ICC/IF, FC, IP**Reactivity** : Human,Mouse,Rat**Host species** : Rabbit**Background**

This gene 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. [provided by RefSeq, Jul 2008]

Immunogen

A synthetic peptide of human eIF4EBP1

Gene ID

1978

Swiss Prot

Q13541

Synonyms

BP-1; 4EBP1; 4E-BP1; PHAS-I

Reactivity

Human,Mouse,Rat

Application

WB, IHC-P, ICC/IF, FC, IP

Recommended dilutionWB: 1:1000
IHC-P: 1:100-1:200
ICC/IF: 1:200-1:500
FC: 1:20-1:50
IP: 1:20**Calculated MW**

13 kDa

Observed MW

15-20 kDa

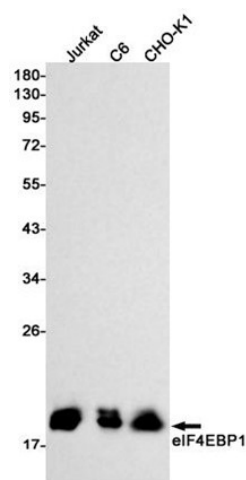
Host species

Rabbit

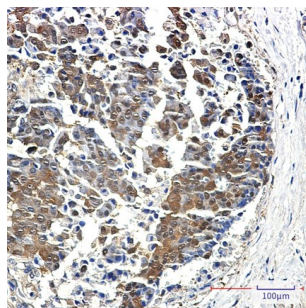
Clonality

Monoclonal

Clonality No.	DGR14165
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.



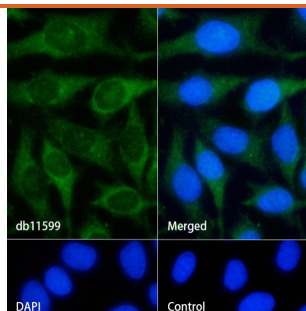
Western blot detection of eIF4EBP1 in Jurkat,C6,CHO-K1 cell lysates using eIF4EBP1 antibody(1:1000 diluted).



Immunohistochemical analysis of paraffin-embedded human breast cancer using db11599 antibody.



Western blot analysis of eIF4EBP1 in mouse heart lysates using 4E BP1 antibody(1:1000 diluted).



Immunofluorescence analysis of HeLa cells labelling 4E BP1 with db11599.

The cells were fixed with cold 100% methanol (10min, 4°C) and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate with db11599 (1:200) at room temprature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit IgG (H+L)-AF488 (db10005, shown in green).

Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.