

bs-2559R**[Primary Antibody]****eIF4EBP1 Rabbit pAb****Bioss**
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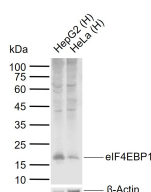
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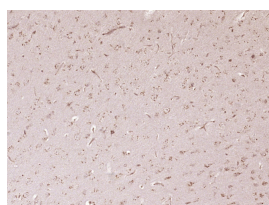
400-901-9800

— DATASHEET —

Host: Rabbit Clonality: Polyclonal GeneID: 1978 Target: eIF4EBP1 Immunogen: KLH conjugated synthetic peptide derived from human 4E-BP1: 65-118/118. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. 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].	Isotype: IgG SWISS: Q13541	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Human, Mouse, Rat (predicted: Sheep, Cow, Dog, Horse, Goat) Predicted MW.: 12 kDa Subcellular Location: Cytoplasm ,Nucleus
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— VALIDATION IMAGES —

Sample: Lane 1: Human HepG2 cell lysates
Lane 2: Human HeLa cell lysates
Primary: Anti-eIF4EBP1 (bs-2559R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 12 kDa
Observed band size: 17 kDa



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (eIF4EBP1) Polyclonal Antibody, Unconjugated (bs-2559R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

— SELECTED CITATIONS —

- **[IF=8.7]** Yu Han. et al. High-precision bioactive scaffold with dECM and extracellular vesicles targeting 4E-BP inhibition for cartilage injury repair. MATER TODAY BIO. 2024 Aug;27:101114 WB ;Rat. 10.1016/j.mtbio.2024.101114
- **[IF=5.546]** Chen N et al. Carbohydrate response element - binding protein regulates lipid metabolism via mTOR complex1 in diabetic nephropathy. J Cell Physiol. 2021 Jan;236(1):625-640. WB ;Mouse&Human. 32583421
- **[IF=2.1]** Zhao Jiamin. et al. Sea buckthorn oil regulates primary myoblasts proliferation and differentiation in vitro. IN VITRO CELL DEV-AN. 2023 Dec;1-12 WB ;Sheep. 38153639

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