bs-14550R **[Primary Antibody]**

phospho-eIF4EBP1（Thr70） Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1978 **SWISS:** Q13541

Target: eIF4EBP1（Thr70）

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human EIF4B around the phosphorylation site of Thr70: TK(p-T)P.

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].

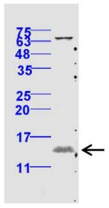
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Rat (predicted: Human, Mouse, Sheep, Cow, Chicken, Dog, Horse)

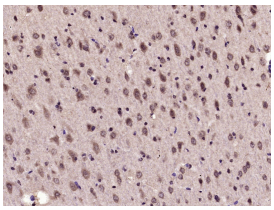
Predicted MW.: 12 kDa

Subcellular Location: Cytoplasm ,Nucleus

VALIDATION IMAGES



Sample: Ovary (Rat) Tissue Lysate at 30 ug
Primary: Anti- phospho-eIF4EBP1（Thr70）(bs-14550R)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 12kD
Observed band size: 12kD



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (phospho-eIF4EBP1 (Thr70)) Polyclonal Antibody, Unconjugated (bs-14550R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP)and DAB staining.

SELECTED CITATIONS

- **[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,IF ;Mouse&Human. 32583421
- **[IF=3.266]** Zhang Y et al. PKI-587 enhances chemosensitivity of oxaliplatin in hepatocellular carcinoma through suppressing DNA damage repair pathway (NHEJ and HR) and PI3K/AKT/mTOR pathway. Am J Transl Res. 2019 Aug 15;11(8):5134-5149. eCollection 2019. WB ;Human. 31497229
- **[IF=2.1]** Ruyue Xu. et al. LY-294002 enhances the chemosensitivity of liver cancer to oxaliplatin by blocking the

PI3K/AKT/HIF-1α pathway. Mol Med Rep. 2021 Jul;24(1):1-11 WB ;Human. 33982772

- **[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