bs-3019R **[Primary Antibody]**

phospho-eIF4EBP1 (Thr37 + Thr46) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1978 **SWISS:** Q13541

Target: eIF4EBP1 (Thr37 + Thr46)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human 4EBP1 around the phosphorylation site of Thr37/46: ST(p-T)PGGTLFST(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].

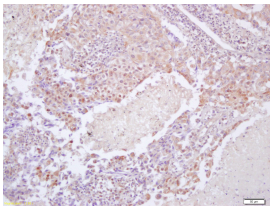
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)
ICC/IF (1:100-500)

Reactivity: Human (predicted: Mouse, Rat, Rabbit, Pig, Cow, Dog, Horse, Goat)

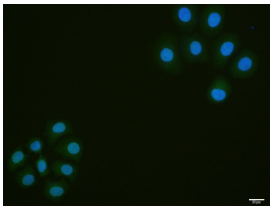
Predicted MW.: 13 kDa

Subcellular Location: Cytoplasm ,Nucleus

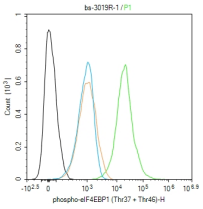
VALIDATION IMAGES



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-phospho-eIF4EBP1(Thr37+Thr46) Polyclonal Antibody, Unconjugated(bs-3019R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



HepG2 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (phospho-eIF4EBP1 (Thr37 + Thr46)) polyclonal Antibody, Unconjugated (bs-3019R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Blank control（black line）:HepG2. Primary Antibody (green line): Rabbit Anti-phospho-eIF4EBP1 (Thr37 + Thr46) antibody (bs-3019R) Dilution:1ug/Test; Secondary Antibody（white blue line）: Goat anti-rabbit IgG-AF488 Dilution: 0.5ug/Test. Isotype control（orange line）: Normal Rabbit IgG Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=5.428]** Xusheng Du. et al. RIOK3-mediated Akt phosphorylation facilitates synergistic replication of Marek’ s

disease and reticuloendotheliosis viruses. VIRULENCE. 2022 Jul 06 WB ;Chicken. 35795905

- **[IF=3.895]** Shen X et al.Retinoic Acid-Induced Protein 14 (RAI14) Promotes mTOR-Mediated Inflammation Under Inflammatory Stress and Chemical Hypoxia in a U87 Glioblastoma Cell Line.(2018) Cell Mol Neurobiol. ICC ;Human. 30554401