bsm-33142M

[**Primary Antibody**]

eIF4A1 Mouse mAb

BiOSS ™
ANTIBODIES

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

— DATASHEET —

Host: Mouse

Clonality: Monoclonal

GeneID: 1973

Target: eIF4A1

Purification: affinity purified by Protein G

Concentration: 1mg/ml

Storage: Size : 50ul/100ul/200ul
0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Size : 200ug (PBS only)
0.01M PBS
Shipped at 4℃. Store at -20℃ for one year. Avoid repeated freeze/thaw cycles.

Background: Translation initiation in eukaryotes necessitates the assembly of an 80S ribosomal complex. Eukaryotic initiation factors (eIFs) are utilized in a sequence of reactions that leads to 80S ribosomal assembly and initiation of translation. Mammalian eukaryotic translation initiation factor 4F (eIF4F) is a protein complex that contains eIF4A, eIF4E and eIF4G, binds mRNA at a 5'-cap motif and recruits the 43S ribosomal preinitiation complex to the eligible transcript. Along with eIF4B, the eIF4F complex mediates the unwinding of mRNA secondary structure to facilitate ribosome association. eIF4E specifically interacts with the 5' cap, eIF4A(I,II) are bidirectional RNA helicases, and eIF4G(I,II) are scaffolding proteins which coordinate eIF4E, eIF4A, eIF3 and the 40S ribosome. Human eIF4AI (eIF4A, DDX2A) is a 406 amino acid protein that is 92.7% homologous to mouse eIF4AI. The promoter region of human eIF4A1 contains TATA and CAAT motifs and consensus binding sites to Sp1 and AP2.

Isotype: IgG

CloneNo.: 1B8

SWISS: P60842

Applications: WB (1:500-1000)

Reactivity: Human, Mouse, Rat

Predicted MW.: 46 kDa

Subcellular Location: Extracellular matrix ,Cytoplasm

— VALIDATION IMAGES —
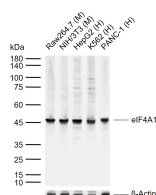
Sample: Lane 1: Mouse Raw264.7 cell lysates Lane 2: Mouse NIH/3T3 cell lysates Lane 3: Human HepG2 cell lysates Lane 4: Human K562 cell lysates Lane 5: Human PANC-1 cell lysates
Primary: Anti-eIF4A1 (bsm-33142M) at 1/1000 dilution Secondary: Alexa Fluor 790 AffiniPure Goat Anti-Mouse IgG, light chain specific
Predicted band size: 46 kDa Observed band size: 46 kDa

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.