

bsm-33142M**[Primary Antibody]****eIF4A1 Mouse mAb****BioSS**
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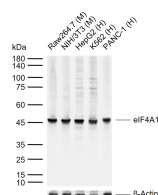
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— DATASHEET —**Host:** Mouse**Isotype:** IgG**Clonality:** Monoclonal**CloneNo.:** 1B8**GeneID:** 1973**SWISS:** P60842**Target:** eIF4A1**Purification:** affinity purified by Protein G**Concentration:** 1mg/ml

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°C. Store at -20°C 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 eIF4A1 (eIF4A, DDX2A) is a 406 amino acid protein that is 92.7% homologous to mouse eIF4A1. The promoter region of human eIF4A1 contains TATA and CAAT motifs and consensus binding sites to Sp1 and AP2.

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