**bs-14548R** **[ Primary Antibody ]**

# eIF4A3 Rabbit pAb

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## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 9775 **SWISS:** P38919

**Target:** eIF4A3

**Immunogen:** KLH conjugated synthetic peptide derived from human eIF4A3: 351-411/411.

**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 a member of the DEAD box protein family. DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure, such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. The protein encoded by this gene is a nuclear matrix protein. Its amino acid sequence is highly similar to the amino acid sequences of the translation initiation factors eIF4AI and eIF4AII, two other members of the DEAD box protein family. [provided by RefSeq, Jul 2008]

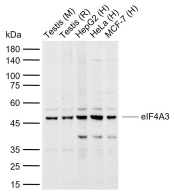
**Applications:** **WB** (1:500-2000)
**IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:100-500)
**Flow-Cyt** (2ug/Test)
**ICC/IF** (1:100)

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

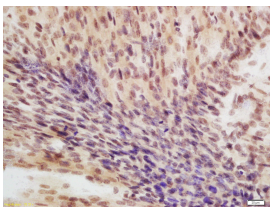
**Predicted MW.:** 47 kDa

**Subcellular Location:** Cytoplasm ,Nucleus

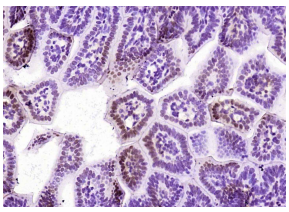
## VALIDATION IMAGES



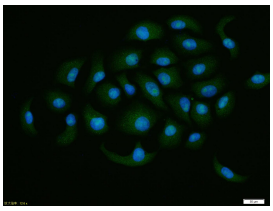

Sample: Lane 1: Mouse Testis tissue lysates Lane 2: Rat Testis tissue lysates Lane 3: Human HepG2 cell lysates Lane 4: Human HeLa cell lysates Lane 5: Human MCF-7 cell lysates Primary: Anti-eIF4A3 (bs-14548R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 47 kDa Observed band size: 47 kDa



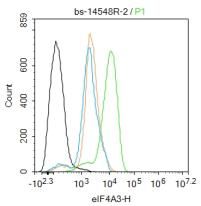
Tissue/cell: mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-eIF4A3 Polyclonal Antibody, Unconjugated(bs-14548R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (mouse embryos tissue); 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 (eIF4A3) Polyclonal Antibody, Unconjugated (bs-14548R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



HepG2 cell; 4% Paraformaldehyde-fixed; Triton




Blank control:Hela. Primary Antibody (green

X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (eIF4A3) polyclonal Antibody, Unconjugated (bs-14548R) 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.

line): Rabbit Anti-eIF4A3 antibody (bs-14548R) Dilution: 2ug/Test; Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5ug/Test. 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=11.161]** Zhipeng Jiang. et al. EIF4A3-induced circ_0084615 contributes to the progression of colorectal cancer via miR-599/ONECUT2 pathway. J Exp Clin Canc Res. 2021 Dec;40(1):1-15 IP ;Human. 34253241
- **[IF=5.8]** Minkai Song. et al. circIFNGR2 Regulating Ankylosing Spondylitis Associated Inflammation through Macrophage Polarization. ISCIENCE. 2023 Jul;:107325 WB ;Mouse. 37520722