Product datasheet

# Anti-EIF4A1 Antibody

**Catalog Number: *A03922-2***

BOSTER
antibody and ELISA experts
**BOSTER BIOLOGICAL TECHNOLOGY**
Building C21, 3rd and 4th floors, Optics Valley Biomedical Accelerator,
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## Basic Information

| | |
|---|---|
| **Product Name** | Anti-EIF4A1 Antibody |
| **Gene Name** | EIF4A1 |
| **Source** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Species Reactivity** | human, mouse, rat |
| **Tested Application** | WB, IHC, ICC/IF, FCM, ELISA |
| **Contents** | 500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol. |
| **Immunogen** | E.coli-derived human EIF4A1/2/3 recombinant protein (Position: D32-I406 ). |
| **Concentration** | 500 ug/ml |
| **Purification** | Immunogen affinity purified. |
| **Observed MW** | 46 kDa |
| **Dilution Ratios** | Western blot (WB): 1:500-2000<br>Immunohistochemistry (IHC): 1:50-400<br>Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400<br>Flow Cytometry (Fixed): 1:50-200<br>Enzyme linked immunosorbent assay (ELISA): 1:100-1000<br>(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user. |

## Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

## Background Information

Eukaryotic initiation factor 4A-I is a protein that in humans is encoded by the EIF4A1 gene. It is mapped to 17p13.1. EIF4A1 has been shown to interact with EIF4E and eukaryotic translation initiation factor 4 gamma.

## Selected Validation Data

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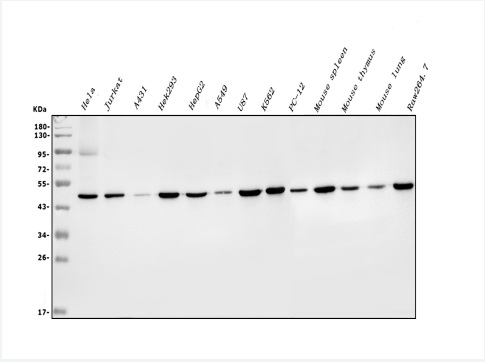


Figure 1. Western blot analysis of EIF4A1 using anti-EIF4A1 antibody (A03922-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HELA whole cell lysates,
Lane 2: human Jurkat whole cell lysates,
Lane 3: human A431 whole cell lysates,
Lane 4: human HEK293 whole cell lysates,
Lane 5: human HepG2 whole cell lysates,
Lane 6: human A549 whole cell lysates,
Lane 7: human U-87MG whole cell lysates,
Lane 8: human K562 whole cell lysates,
Lane 9: Rat PC-12 whole cell lysates,
Lane 10: mouse spleen issue lysates,
Lane 11: mouse thymus issue lysates,
Lane 12: mouse lung issue lysates,
Lane 13: mouse RAW264.7 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-EIF4A1 antigen affinity purified polyclonal antibody (A03922-2) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for EIF4A1 at approximately 46 kDa. The expected band size for EIF4A1 is at 46 kDa.

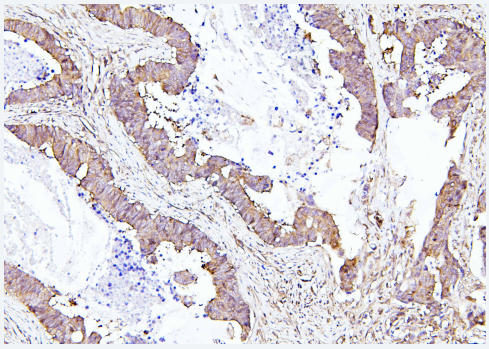

Figure 2. IHC analysis of EIF4A1 using anti-EIF4A1 antibody (A03922-2).
EIF4A1 was detected in a paraffin-embedded section of human colon cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-EIF4A1 Antibody (A03922-2) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1022) as the chromogen.

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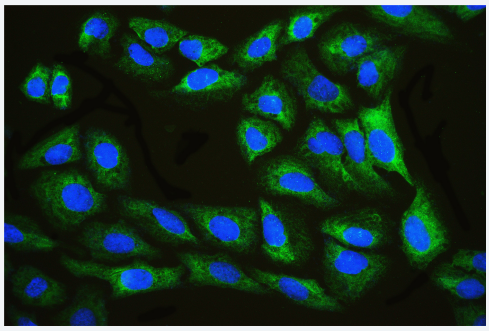

Figure 7. IF analysis of EIF4A1 using anti-EIF4A1 antibody (A03922-2).
EIF4A1 was detected in an immunocytochemical section of U2OS cells. The section was incubated with rabbit anti-EIF4A1 Antibody (A03922-2) at a dilution of 1:100. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).

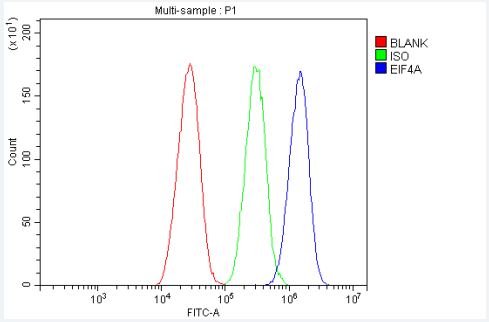


Figure 8. Flow Cytometry analysis of HepG2 cells using anti-EIF4A1 antibody (A03922-2).
Overlay histogram showing HepG2 cells stained with A03922-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-EIF4A1 Antibody (A03922-2) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.