

**Product Name: eIF4A1(M8)Mouse Monoclonal Antibody**  
**Catalog #: AMM10382**

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## Summary

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Production Name</b> | eIF4A1(M8)Mouse Monoclonal Antibody |
| <b>Description</b>     | Mouse Monoclonal Antibody           |
| <b>Host</b>            | Mouse                               |
| <b>Application</b>     | WB,IHC-P,IF-P,IF-F,ICC/IF           |
| <b>Reactivity</b>      | Human,Mouse,Rat                     |

## Performance

|                     |  |
|---------------------|--|
| <b>Conjugation</b>  | Unconjugated   |
| <b>Modification</b> | Unmodified   |
| <b>Isotype</b>      | IgG  |
| <b>Clonality</b>    | Monoclonal   |
| <b>Form</b>         | Liquid   |
| <b>Storage</b>      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.         |
| <b>Buffer</b>       | PBS, pH 7.4, containing 0.5%BSA, 0.02% New type preservative N as Preservative and 50% Glycerol. |
| <b>Purification</b> | Affinity purification  |

## Immunogen

|                          |   |
|--------------------------|---|
| <b>Gene Name</b>         | EIF4A1  |
| <b>Alternative Names</b> | Eukaryotic initiation factor 4A-I (eIF-4A-I) (eIF4A-I) (EC 3.6.4.13) (ATP-dependent RNA helicase eIF4A-1) |
| <b>Gene ID</b>           | 1973.0  |
| <b>SwissProt ID</b>      | P60842.Synthetic Peptide of eIF4A1  |

## Application

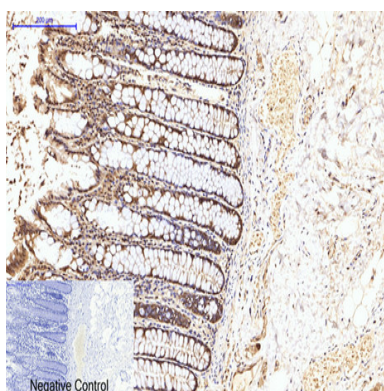
|                         |  |
|-------------------------|--|
| <b>Dilution Ratio</b>   | WB 1:1000-3000, IF-P/IF-F/ICC/IF 1:100-200, IHC-P 1:50-300 |
| <b>Molecular Weight</b> | 48kDa  |

## Background

function:ATP-dependent RNA helicase which is a subunit of the eIF4F complex involved in cap recognition and is required for mRNA binding to ribosome. In the current model of translation initiation, eIF4A unwinds RNA secondary structures in the 5'-UTR of mRNAs which is necessary to allow efficient binding of the small ribosomal subunit, and subsequent scanning for the initiator codon.,similarity:Belongs to the DEAD box helicase family.,similarity:Belongs to the DEAD box helicase family. eIF4A subfamily.,similarity:Contains 1 helicase ATP-binding domain.,similarity:Contains 1 helicase C-terminal domain.,subunit:eIF4F is a multi-subunit complex, the composition of which varies with external and internal environmental conditions. It is composed of at least EIF4A, EIF4E and EIF4G1/EIF4G3. Interacts with PAIP1, EIF4E and RENT2. Found in a complex with XPO7, EIF4A1, ARHGAP1, VPS26A, VPS29, VPS35 and SFN. May interact with NOM1.,function:ATP-dependent RNA helicase which is a subunit of the eIF4F complex involved in cap recognition and is required for mRNA binding to ribosome. In the current model of translation initiation, eIF4A unwinds RNA secondary structures in the 5'-UTR of mRNAs which is necessary to allow efficient binding of the small ribosomal subunit, and subsequent scanning for the initiator codon.,similarity:Belongs to the DEAD box helicase family.,similarity:Belongs to the DEAD box helicase family. eIF4A subfamily.,similarity:Contains 1 helicase ATP-binding domain.,similarity:Contains 1 helicase C-terminal domain.,subunit:eIF4F is a multi-subunit complex, the composition of which varies with external and internal environmental conditions. It is composed of at least EIF4A, EIF4E and EIF4G1/EIF4G3. Interacts with PAIP1, EIF4E and RENT2. Found in a complex with XPO7, EIF4A1, ARHGAP1, VPS26A, VPS29, VPS35 and SFN. May interact with NOM1.,

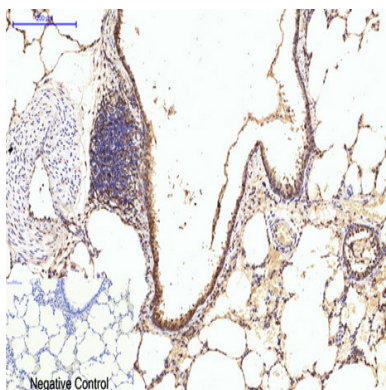
## Research Area

## Image Data

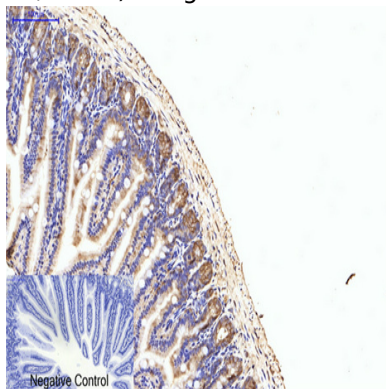


Immunohistochemical analysis of paraffin-embedded Human-colon-cancer tissue. 1,eIF4A1 Monoclonal Antibody (M8) was diluted at 1:200 (4°C,overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C,20min) . 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min) . Negative control was used by secondary antibody only.

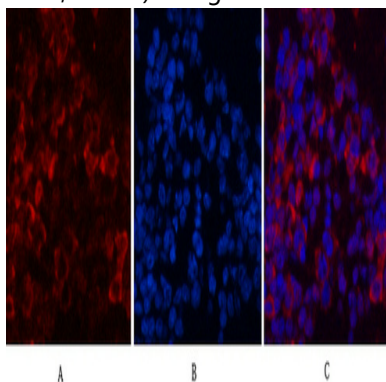
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Immunohistochemical analysis of paraffin-embedded Rat-lung tissue. 1,eIF4A1 Monoclonal Antibody (M8) was diluted at 1:200 (4°C,overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C,20min) . 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min) . Negative control was used by secondary antibody only.

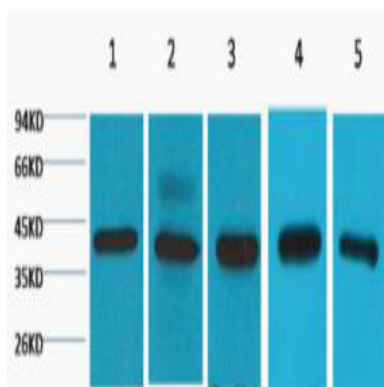


Immunohistochemical analysis of paraffin-embedded Mouse-colon tissue. 1,eIF4A1 Monoclonal Antibody (M8) was diluted at 1:200 (4°C,overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C,20min) . 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min) . Negative control was used by secondary antibody only.

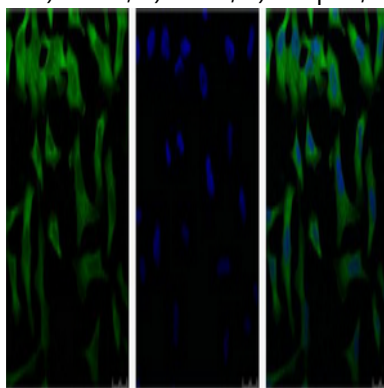


Immunofluorescence analysis of Mouse-spleen tissue. 1,eIF4A1 Monoclonal Antibody (M8) (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min) . 3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

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Western blot analysis of 1) 293T, 2) Hela, 3) HepG2, 4) Mouse Brain tissue,



IF analysis of Hela with antibody (Left) and DAPI (Right) diluted at 1:100.

## **Note**

For research use only.