

# Human eIF-5A1/EIF5A antibody

Catalog Number: ATGA0128

## PRODUCT INFORMATION

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**Catalog number**

ATGA0128

**Clone No.**

AT4D1

**Product type**

Monoclonal Antibody

**UnitProt No.**

P63241

**NCBI Accession No.**

NP\_001961

**Alternative Names**

Eukaryotic translation initiation factor 5A-1 isoform B, Eukaryotic translation initiation factor 5A, Eukaryotic translation initiation factor 5A-1, eIF-5A-1, Eukaryotic initiation factor 5A isoform 1, eIF-5A, Rev-binding factor, eIF-4D

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human EIF5A (1-154aa) purified from E. coli

**Isotype**

IgG1 kappa

**Purification Note**

By protein-G affinity chromatography

**Application**

ELISA, WB, ICC/IF, FACS

**Usage**

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

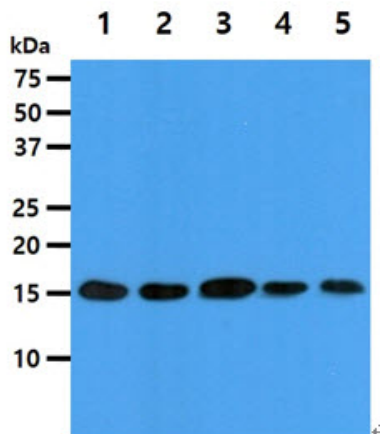
Eukaryotic translation initiation factor 5A (eIF5A) is the only protein known to contain unusual amino acid formed by the action of deoxyhypusine synthase and deoxyhypusine hydroxylase using spermidine as the substrate. This protein was previously reported to be involved in the first step of peptide bond formation in translation; however more recent work implicates it as a universally conserved translation elongation factor. Modulation of eIF5A has been linked to proliferation and cancer.

### General References

Saini P., et al. (2009) Nature. 459(7243): 118-21.  
Gosslau A., et al. (2009) J Cell Physiol. 219(2): 485-93.

## DATA

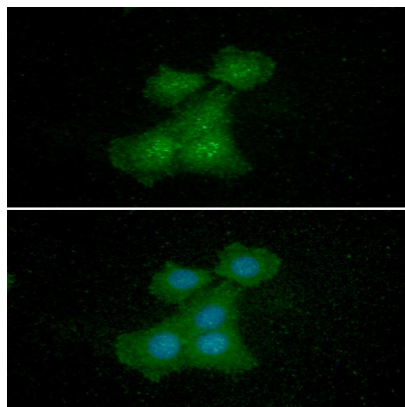
### Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human EIF5A antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Jurkat cell lysate  
Lane 2.: 293T cell lysate  
Lane 3.: HeLa cell lysate  
Lane 4.: MCF7 cell lysate  
Lane 5.: NIH-3T3 cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)

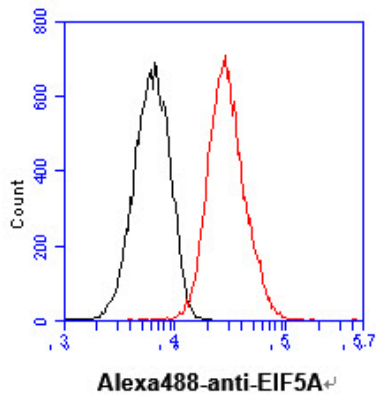


ICC/IF analysis of EIF5A in Balb/3T3 cells. The cell was stained with ATGA0128 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

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## Flow cytometry (FACS)



Flow cytometry analysis of EIF5A in Balb/3T3 cell line, staining at 2-5ug for  $1 \times 10^6$  cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).