

Human eIF-5A1/EIF5A antibody

Catalog Number: ATGA0128

PRODUCT INFORMATION

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

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

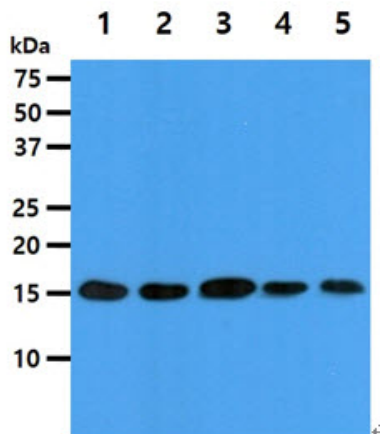
Eukaryotic translation initiation factor 5A (eIF5A) is the only protein known to contain unusual amino acid formed by the action of deoxyhypusine synthase and deoxyhypusine hydroxylase using spermidine as the substrate. This protein was previously reported to be involved in the first step of peptide 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

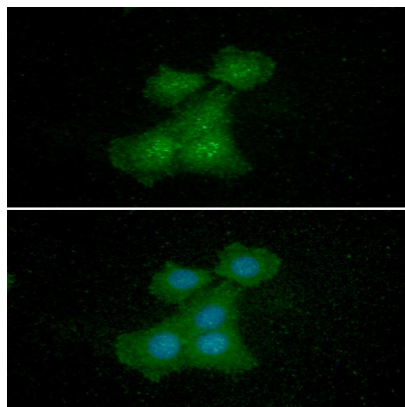
Western blot analysis (WB)



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)

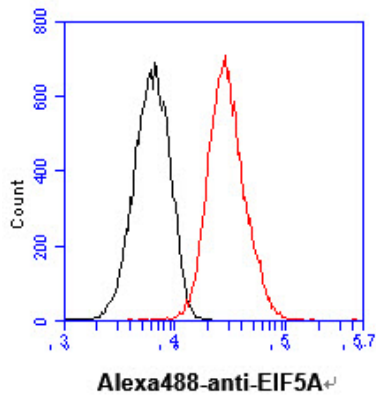


ICC/IF analysis of EIF5A in Balb/3T3 cells. The cell was stained with ATGA0128 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

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Flow cytometry (FACS)



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