

# Human EEF1A1 antibody

Catalog Number: ATGA0347

## PRODUCT INFORMATION

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**Catalog number**

ATGA0347

**Clone No.**

AT23C11

**Product type**

Monoclonal Antibody

**UnitProt No.**

P68104

**NCBI Accession No.**

NP\_001393

**Alternative Names**

Eukaryotic translation elongation factor 1 alpha 1, Leukocyte receptor cluster (LRC) member 7, Elongation factor 1-alpha 1, EF-1-alpha-1, Elongation factor Tu, EF-Tu, Eukaryotic elongation factor 1 A-1, eEF1A-1, EEF1A, EF1A, LENG7, EE1A1, EF1A1, EF1alpha1

## 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 EEF1A1 (1-462aa) purified from E.coli

**Isotype**

IgG2a kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, ICC/IF

**Usage**

The antibody has been tested by ELISA, Western blot and ICC/IF 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

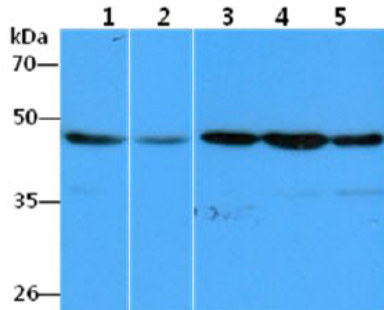
Eukaryotic translation elongation factors 1 alpha, eEF1A1 and eEF1A2, are not only translation factors but also pleiotropic proteins that are highly expressed in human tumors, including breast cancer, ovarian cancer, and lung cancer. eEF1A1 modulates cytoskeleton, exhibits chaperone-like activity and also controls cell proliferation and cell death. Translation is the process where amino acid residues are assembled into polypeptides on ribosomes. This process is generally divided into three stages: initiation, elongation and termination. During elongation, mRNA and tRNA pair at the two active sites (A and P sites) on the ribosome. A number of eukaryotic elongation factors (eEFs) are involved in this process in mammalian cells.

### General References

Huang Y., et al. (2012) Zhongguo Shi Yan Xue Ye Xue Za Zhi. 20(4): 835-841.  
Browne GJ., et al. (2002) Eur J Biochem. 269(22): 5360-5368.

## DATA

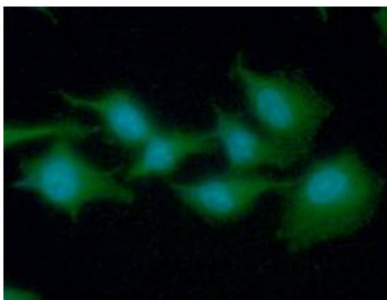
### Western blot analysis (WB)



The Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human EEF1A1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate  
Lane 2.: A549 cell lysate  
Lane 3.: Raji cell lysate  
Lane 4.: THP-1 cell lysate  
Lane 5.: MCF-7 cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of EEF1A1 in A549 cells. The cell was stained with ATGA0347 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).