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Human EEF1A1 antibody

Catalog Number: ATGA0347

PRODUCT INFORMATION

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

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

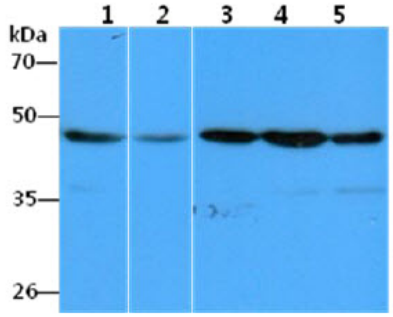
Eukaryotic translation elongation factors 1 alpha, eEF1A1 and eEF1A2, are not only translation factors but also pleiotropic proteins that are highly expressed in human tumors, including breast cancer, ovarian cancer, and lung cancer. eEF1A1 modulates cytoskeleton, exhibits chaperone-like activity and 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) Zhonqquo Shi Yan Xue Ye Xue Za Zhi. 20(4): 835-841.
Browne GJ., et al. (2002) Eur J Biochem. 269(22): 5360-5368.

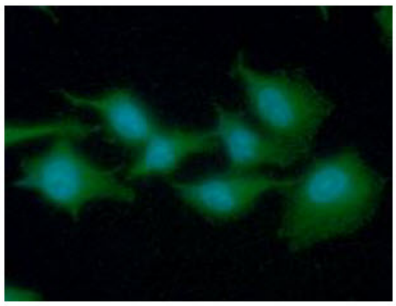
DATA

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).