

Monoclonal anti-human EEF1A1 antibody (clone AT23C11)

Mouse IgG_{2a}, κ

Cat. No. IBATGA0347

Immunogen: Recombinant human EEF1A1 (1-462aa) purified from *E.coli*

NCBI Accession No.: NP_001393

Isotype: Mouse IgG_{2a} heavy chain and κ light chain

Clone: Anti-human EEF1A1 mAb, clone AT23C11, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human EEF1A1 protein.

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.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

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

Application: ELISA, WB, Flow cytometry, ICC/IF

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

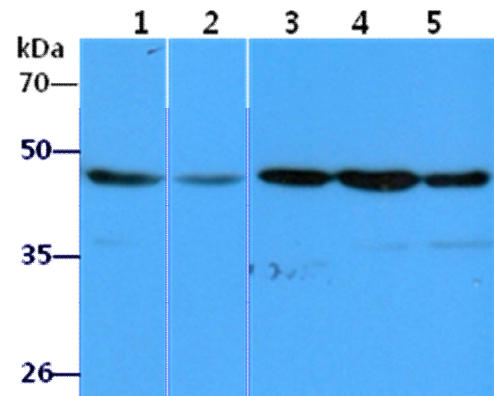
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Product information

Western blot analysis

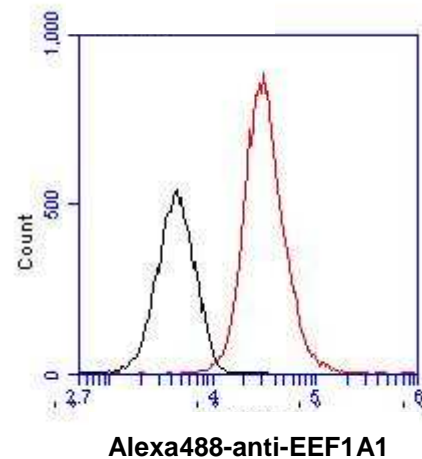
The Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human EEF1A1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

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



Flow cytometry

Flow cytometry analysis of EEF1A1 in U87MG 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).



ICC/IF analysis

ICC/IF analysis of EEF1A1 in A549 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human EEF1A1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



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.

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