

Human EMAP-II/AIMP1 antibody

Catalog Number: ATGA0396

PRODUCT INFORMATION

Catalog number

ATGA0396

Clone No.

AT6D10

Product type

Monoclonal Antibody

UnitProt No.

Q12904

NCBI Accession No.

NP_001135888

Alternative Names

Aminoacyl tRNA synthase complex-interacting multifunctional protein 1, EMAP2, EMAPII, p43, SCYE1

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 AIMP1 (1-336aa) purified from E. coli

Isotype

IgG2a kappa

Purification Note

By protein-A 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

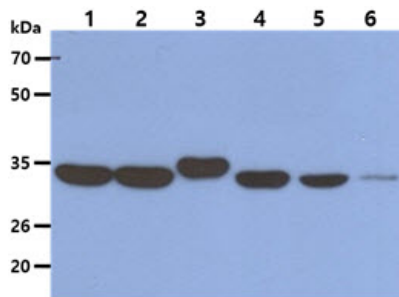
AIMP1, also known as p43, hasn't until recently been recognized for its prominent immunological functions. Together with other nonenzymatic mARS structural components AIMP2/38 and AIMP3/p18, it participates in the machinery responsible for cell-cycle control and tumor suppression.

General References

Liang D., et al. (2015) *Int Rev Immunol.* 34(5): 367-381.
Hong SH., et al. (2015) *Biomaterials.* 44: 45-54.

DATA

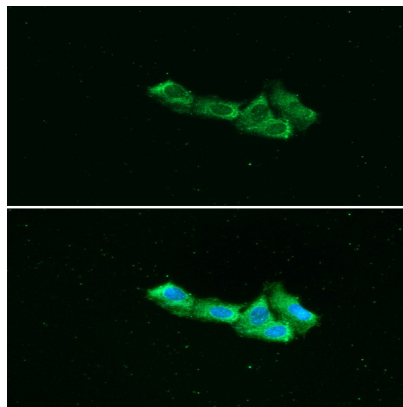
Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human AIMP1 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. : HepG2 cell lysate
Lane 3. : Raji cell lysate
Lane 4. : Jurkat cell lysate
Lane 5. : A549 cell lysate
Lane 6. : HaCaT cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

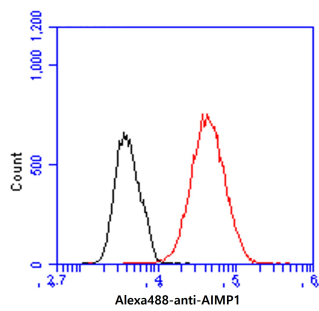


ICC/IF analysis of AIMP1 in Hep3B cells. The cell was stained with ATGA0396 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)

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Flow cytometry analysis of AIMP1 in Hep3B 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).