Product information

Monoclonal anti-human B2M antibody (clone AT101F10)

Mouse IgG_{2b}, κ

Cat. No. IBATGA0439

Immunogen: Recombinant human B2M (21-119aa) purified from *E. coli*

NCBI Accession No.: NP_004039

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

Clone: Anti-human B2M mAb, clone AT101F10, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human B2M protein.

Description: Beta2 microglobulin, also known as B2M, is a component of MHC class I molecules, Involved in the presentation of peptide antigens to the immune system. B2M is a protein found on the surface of many cells and plentiful on the surface of white blood cells. Increased production or destruction of these cells causes B2M levels in the blood to increase. This increase is seen in people with cancers involving white blood cells, but it is particularly meaningful in people newly diagnosed with multiple myeloma. Multiple myeloma is a malignancy (cancer) of a certain kind of white blood cell, called a plasma cell. B2M Testing is done primarily when evaluating a person for certain kinds of cancer affecting white blood cells including chronic lymphocytic leukemia, non-Hodgkin's lymphoma, and multiple myeloma or kidney disease.

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. Flow cytometry and ICC/IF 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

Manufactured for:
Immuno-Biological Laboratories, Inc. (IBL-America)
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Phone: (888) 523-1246 Fax.: (763) 780-2988
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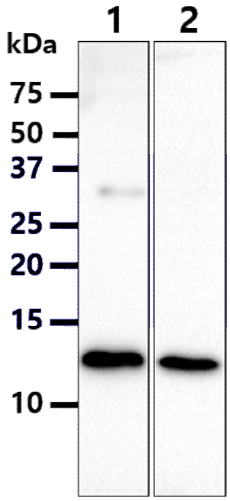
Western blot analysis

The lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human B2M antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

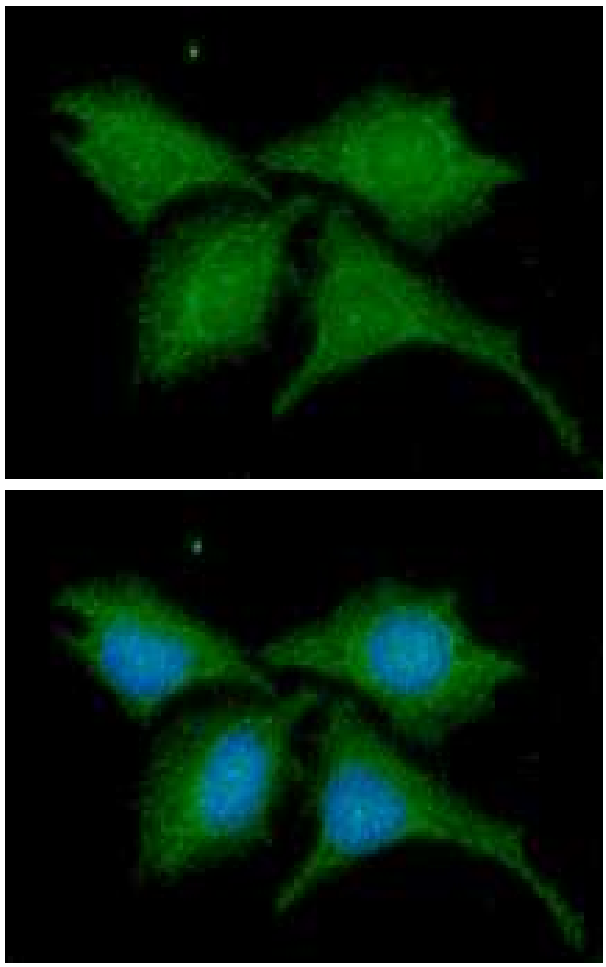
Lane 1 : HeLa cell lysate

Lane 2 : U937 cell lysate



ICC/IF analysis

ICC/IF analysis of B2M in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human B2M antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



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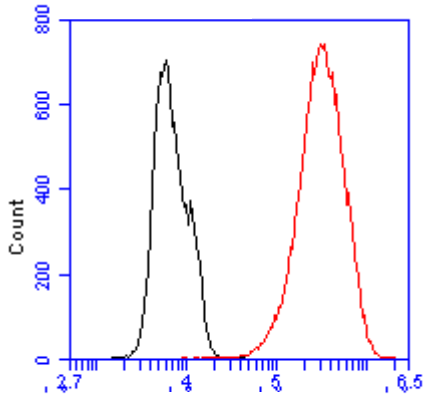
Flow cytometry

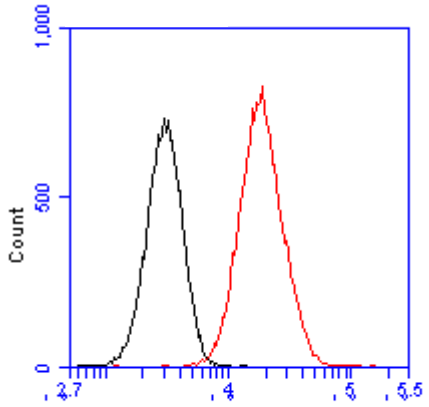
Flow cytometry analysis of B2M in A431 cell line, staining at 2-5ug for 1x10^{6}cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



Alexa488-anti-B2M

Flow cytometry

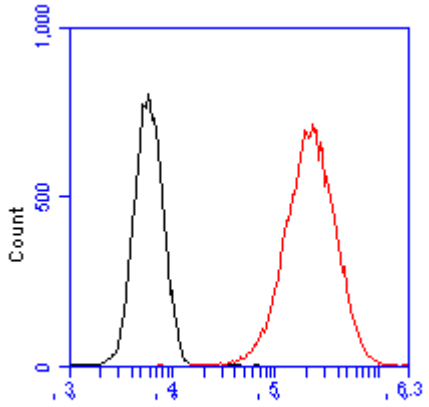
Flow cytometry analysis of B2M in 293T cell line, staining at 2-5ug for 1x10^{6}cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



Alexa488-anti-B2M

Flow cytometry

Flow cytometry analysis of B2M in HeLa cell line, staining at 2-5ug for 1x10^{6}cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



Alexa488-anti-B2M

General references: Huang WC., *et al* (2010) *J Biol Chem*. **285(11):** 7947-56.
Morabito A., *et al*. (2009) *Hum Immunol*. **70(7):** 492-5.

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