

## Mouse Beta-2 Microglobulin Monoclonal Antibody | anti-B2M antibody

Beta-2 Microglobulin (Renal Failure & Tumor Marker) Mouse Monoclonal Antibody

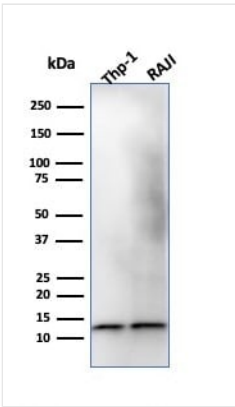
| CATALOG # | HOST  | REACTIVITY                | APPLICATIONS                     |
|-----------|-------|---------------------------|----------------------------------|
| AAA62699  | Mouse | Human, Non-Human Primates | Flow Cytometry, Functional Assay |

### PRODUCT SYNONYMS

Beta-2 Microglobulin; Monoclonal Antibody; Beta-2 Microglobulin (Renal Failure & Tumor Marker) Mouse Monoclonal Antibody; B2M; Beta 2 microglobulin; Beta 2 microglobulin; Beta chain of MHC class I molecules; Beta-2-microglobulin form pI 5.3; Hdcma22p; anti-B2M antibody

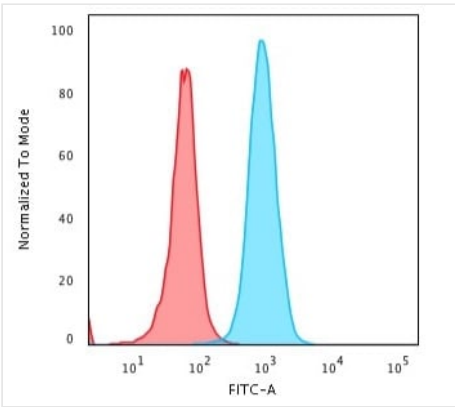
### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity                                    | Human, Non-Human Primates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Clonality                                     | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Isotype                                       | IgG1, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Clone Number                                  | B2M/1118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Specificity                                   | beta 2 microglobulin is a 12KDa protein with a pI of 5.6. Serum beta 2 microglobulin levels are a reflection of cell turnover. Levels rise with fever, inflammation, and infection. Increased serum levels are also seen in B-cell malignancies and in renal failure and may indicate a worse prognosis for patients with early-stage Hodgkin's lymphoma. In urine, increased levels are seen in proximal renal tubular disease as well as renal transplant rejection. beta 2 microglobulin levels can rise either because its rate of synthesis has increased (e.g. in AIDS, malignant monoclonal plasma cell dyscrasia, solid tumours and autoimmune disease) or because of impaired renal filtration (e.g. due to renal insufficiency, graft rejection or nephrotoxicity induced by post-transplantation immunosuppressive therapy). |
| Form/Format                                   | 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Sequence Length                               | 119                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Applicable Applications for anti-B2M antibody | FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Cellular Localization                         | Cell Surface, Secreted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Immunogen                                     | Full length recombinant human B2M protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Positive Control                              | HL-60 or HeLa cells. Melanomas and Lymphoma. Carcinoma of Stomach, Cervix, Endometrial, Kidney or Colon.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Preparation and Storage                       | Antibody with azide - store at 2 to 8°C. Non-hazardous. No MSDS Required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |



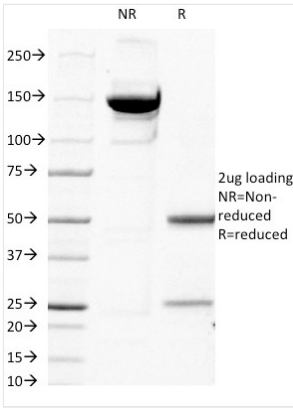
WB (Western Blot)

Western Blot Analysis of THP-1 and Raji Cell lysate using Beta-2-Microglobulin Mouse Monoclonal Antibody (B2M/1118).



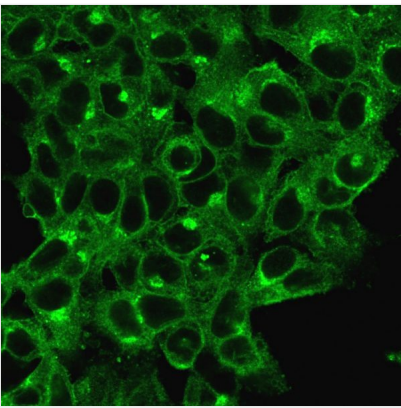
FCM/FACS (Flow Cytometry)

Flow Cytometric Analysis of HeLa cells using Beta-2-Microglobulin Mouse Monoclonal Antibody (B2M/1118); followed bygoat anti-mouse IgG-CF488 (Blue); Unstained cells Control (Red).



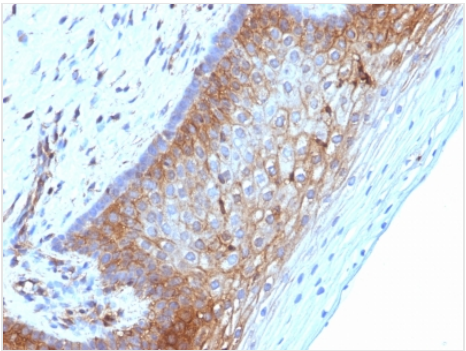
Application Data

Purified Beta-2-Microglobulin Mouse Monoclonal Antibody (B2M/1118). Confirmation of Integrity and Purity of Antibody.



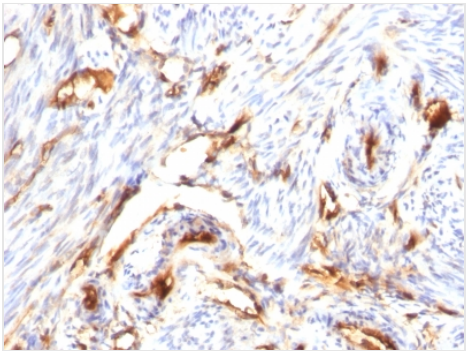
IF (Immunofluorescence)

Immunofluorescent staining of HeLa cells. Beta-2-Microglobulin Mouse Monoclonal Antibody (B2M/1118); followed by goat anti-mouse IgG-CF488 (Green).



IHC (Immunohistochemisry)

Formalin-fixed, paraffin-embedded human Cervical Carcinoma stained with Beta-2-Microglobulin Monoclonal Antibody (B2M/1118)



IHC (Immunohiostchemistry)

Formalin-fixed, paraffin-embedded human Endometrial Carcinoma stained with Beta-2-Microglobulin Monoclonal Antibody (B2M/1118)

ADDITIONAL INFORMATION

|            |                                                                                                                                                                                                                                                                                          |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | Liabeuf A, le Borgne de Kaouel C, Kourilsky FM, Malissen B, Manuel Y, Sanderson AR. An antigenic determinant of human beta 2-microglobulin masked by the association with HLA heavy chains at the cell surface: analysis using monoclonal antibodies. J Immunol. 1981 Oct;127(4):1542-8. |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|           |         |
|-----------|---------|
| NCBI GI # | 4757826 |
|-----------|---------|

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| NCBI GeneID                      | 567                                                    |
| NCBI Accession #                 | NP_004039.1                                            |
| NCBI GenBank Nucleotide #        | NM_004048.2                                            |
| UniProt Accession #              | P61769; P01884; Q540F8; Q6IAT8; Q9UCK0; Q9UD48; Q9UDF4 |
| Molecular Weight                 | 12kDa                                                  |
| NCBI Official Full Name          | beta-2-microglobulin                                   |
| NCBI Official Synonym Full Names | beta-2-microglobulin                                   |
| NCBI Official Symbol             | B2M                                                    |
| NCBI Official Synonym Symbols    | IMD43                                                  |
| NCBI Protein Information         | beta-2-microglobulin                                   |
| UniProt Protein Name             | Beta-2-microglobulin                                   |
| UniProt Gene Name                | <b>B2M</b>                                             |
| UniProt Entry Name               | B2MG_HUMAN                                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/monoclonal/beta-2-microglobulin-antibody-clone-b2m-1118-flow-cytometry-elisa/62699>