

## Brilliant Violet 711™ anti-human β2-microglobulin Antibody

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| <b>Catalog# / Size</b>   | 395735 / 25 tests<br>395736 / 100 tests                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Clone</b>             | A17082A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Regulatory Status</b> | RUO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Other Names</b>       | β2M, β2-M, beta2-microglobulin b2-M, b2M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Isotype</b>           | Mouse IgG1, κ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>       | β2-microglobulin (β2M) is a 12 kDa, nonpolymorphic immunoglobulin-like protein. It is a non-membrane-anchored glycoprotein that associates noncovalently with the 39–44 kDa polymorphic heavy chains of MHC class I molecules to form the HLA class I antigen complex. In association with HLA class I, β2M is expressed on all leukocytes, platelets, endothelial cells, and epithelial cells. β2M is essential for maintaining MHC class I stability and for facilitating antigen binding and presentation to the CD3/TCR complex on CD8+ T cells. |

### Product Details

|                               |                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Verified Reactivity</b>    | Human                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Antibody Type</b>          | Monoclonal                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Host Species</b>           | Mouse                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Immunogen</b>              | Recombinant human beta2-microglobulin                                                                                                                                                                                                                                                                                                                                                 |
| <b>Formulation</b>            | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)                                                                                                                                                                                                                                                                                               |
| <b>Preparation</b>            | The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711™ under optimal conditions.                                                                                                                                                                                                                                                              |
| <b>Concentration</b>          | Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our <a href="#">Certificate of Analysis</a> online tool).                                                                                                                                                                                                                           |
| <b>Storage &amp; Handling</b> | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>                                                                                                                                                                                                                                           |
| <b>Application</b>            | <a href="#">FC - Quality tested</a>                                                                                                                                                                                                                                                                                                                                                   |
| <b>Recommended Usage</b>      | Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. |

Brilliant Violet 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 711™ is a trademark of Sirigen Group Ltd.

[Learn more about Brilliant Violet™.](#)

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|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Excitation Laser</b>  | Violet Laser (405 nm)                                                                                                                                        |
| <b>Application Notes</b> | Clone A17082A partially blocks anti-human $\beta$ 2-microglobulin clone 2M2, but does not block anti-human HLA-A,B,C clone W6/32, based on in-house testing. |

## Antigen Details

|                           |                                                                                                                                                                                                                                                                                                                                               |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Structure</b>          | 12 KD, Ig like structure                                                                                                                                                                                                                                                                                                                      |
| <b>Distribution</b>       | Leukocytes, platelets, endothelial cells, epithelial cells and other nucleated cells.                                                                                                                                                                                                                                                         |
| <b>Function</b>           | Forms MHC class I complex                                                                                                                                                                                                                                                                                                                     |
| <b>Interaction</b>        | MHC class I heavy chain and other MHC I like molecules.                                                                                                                                                                                                                                                                                       |
| <b>Cell Type</b>          | Antigen-presenting cells, Endothelial cells, Epithelial cells, Leukocytes, Platelets                                                                                                                                                                                                                                                          |
| <b>Biology Area</b>       | Cancer Biomarkers, Immunology, Innate Immunity                                                                                                                                                                                                                                                                                                |
| <b>Molecular Family</b>   | MHC Antigens                                                                                                                                                                                                                                                                                                                                  |
| <b>Antigen References</b> | <ol style="list-style-type: none"> <li>1. Engelhard VH. 1994. <i>Curr. Opin. Immunol.</i> 6:13.</li> <li>2. Williams DB, <i>et al.</i> 1989. <i>J. Immunol.</i> 142:2796.</li> <li>3. Danliczyk UG and TL. Delovitch. 1994. <i>J. Immunol.</i> 153:3533.</li> <li>4. Williams A, <i>et al.</i> 2002. <i>Tissue Antigens.</i> 59:3.</li> </ol> |

**Gene ID** [567](#)

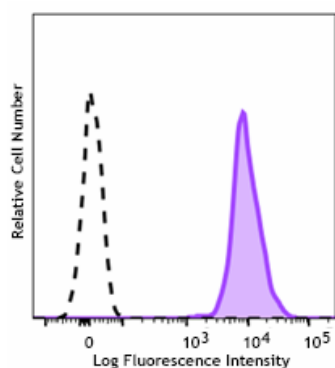
## Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

PerCP/Cyanine5.5 anti-human  $\beta$ 2-microglobulin, PE/Cyanine5 anti-human  $\beta$ 2-microglobulin, Brilliant Violet 421™ anti-human  $\beta$ 2-microglobulin, Biotin anti-human  $\beta$ 2-microglobulin, Spark Red™ 718 anti-human  $\beta$ 2-microglobulin, Pacific Blue™ anti-human  $\beta$ 2-microglobulin, PE/Dazzle™ 594 anti-human  $\beta$ 2-microglobulin, Spark UV™ 387 anti-human  $\beta$ 2-microglobulin, Purified anti-human  $\beta$ 2-microglobulin, Brilliant Violet 711™ anti-human  $\beta$ 2-microglobulin Antibody, Brilliant Violet 510™ anti-human  $\beta$ 2-microglobulin Antibody, FITC anti-human  $\beta$ 2-microglobulin, Alexa Fluor® 700 anti-human  $\beta$ 2-microglobulin, APC anti-human  $\beta$ 2-microglobulin, APC/Cyanine7 anti-human  $\beta$ 2-microglobulin, APC/Fire™ 750 anti-human  $\beta$ 2-microglobulin, PE anti-human  $\beta$ 2-microglobulin, PE/Cyanine7 anti-human  $\beta$ 2-microglobulin, Brilliant Violet 605™ anti-human  $\beta$ 2-microglobulin Antibody

## Product Data



Human peripheral blood lymphocytes were stained with anti-human  $\beta$ 2-microglobulin (clone A17082A) Brilliant Violet 711™ (filled histogram) or mouse IgG1,  $\kappa$  Brilliant Violet 711™ isotype control (open histogram).

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