Brilliant Violet 605™ anti-human β2-microglobulin Antibody

Catalog# / Size	395739 / 25 tests 395740 / 100 tests
Clone	A17082A
Regulatory Status	RUO
Other Names	β2M, β2-M, beta2-microglobulin b2-M, b2M
Isotype	Mouse IgG1, κ
Description	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

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant human beta2-microglobulin
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool).
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze**.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. 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 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 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 605™ is a trademark of Sirigen Group Ltd. Learn more about Brilliant Violet™. This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.

Excitation Laser	Violet Laser (405 nm)
Application Notes	Clone A17082A partially blocks anti-human β2-microglobulin clone 2M2, but does not block anti-human HLA-A,B,C clone W6/32, based on in-house testing.

Antigen Details

Structure	12 KD, Ig like structure
Distribution	Leukocytes, platelets, endothelial cells, epithelial cells and other nucleated cells.
Function	Forms MHC class I complex
Interaction	MHC class I heavy chain and other MHC I like molecules.
Cell Type	Antigen-presenting cells, Endothelial cells, Epithelial cells, Leukocytes, Platelets
Biology Area	Cancer Biomarkers, Immunology, Innate Immunity
Molecular Family	MHC Antigens
Antigen References	1. Engelhard VH. 1994. *Curr. Opin. Immunol*. 6:13. 2. Williams DB, *et al*. 1989. *J. Immunol*. 142:2796. 3. Danliczyk UG and TL. Delovitch. 1994. *J. Immunol*. 153:3533. 4. Williams A, *et al*. 2002. *Tissue Antigens*. 59:3.
Gene ID	567

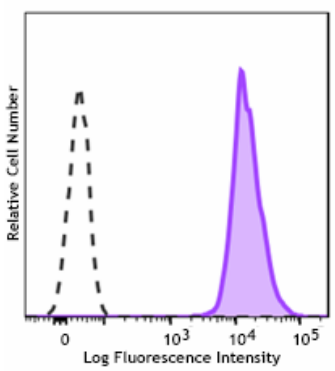
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

Other Formats

APC/Cyanine7 anti-human β2-microglobulin, PerCP/Cyanine5.5 anti-human β2-microglobulin, PE/Cyanine5 anti-human β2-microglobulin, Brilliant Violet 421™ anti-human β2-microglobulin, Biotin anti-human β2-microglobulin, Spark Red™ 718 anti-human β2-microglobulin, Pacific Blue™ anti-human β2-microglobulin, PE/Dazzle™ 594 anti-human β2-microglobulin, Spark UV™ 387 anti-human β2-microglobulin, Brilliant Violet 711™ anti-human β2-microglobulin Antibody, Brilliant Violet 510™ anti-human β2-microglobulin Antibody, Purified anti-human β2-microglobulin, Brilliant Violet 605™ anti-human β2-microglobulin Antibody, APC/Fire™ 750 anti-human β2-microglobulin, PE anti-human β2-microglobulin, PE/Cyanine7 anti-human β2-microglobulin, FITC anti-human β2-microglobulin, Alexa Fluor® 700 anti-human β2-microglobulin, APC anti-human β2-microglobulin

Product Data



Human peripheral blood lymphocytes were stained with anti-human β2-microglobulin (clone A17082A) Brilliant Violet 605™ (filled histogram) or mouse IgG1, κ Brilliant Violet 605™ isotype control (open histogram).

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