

APC/Cyanine7 anti-human β 2-microglobulin Antibody

Catalog# / Size	395811 / 25 tests
Clone	A17082E
Regulatory Status	RUO
Other Names	β 2M, β 2-M, beta2-microglobulin b2-M, b2M
Isotype	Mouse IgG1, κ
Description	β 2-microglobulin (β 2M) is a 12 kD nonpolymorphic Ig like protein. It is a non-membrane-anchored glycoprotein and is noncovalently associated with 39-44 kD polymorphic heavy chains of MHC class I molecules to form HLA class I antigen complex. In association with HLA class I, β 2M is expressed on all leukocytes, platelets, endothelial cells, and epithelial cells. β 2M plays an essential role both in governing MHC class I molecules stability and in promoting antigen binding and presenting the antigen to CD3/TCR complex of 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 APC/Cyanine7 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 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)
Application Notes	Based on in-house testing, staining for clone A17082E is not blocked by clone W6/32 (anti-HLA-A,B,C) and is only partially blocked by clone 2M2 also raised against human β 2-microglobulin.
RRID	AB_3717203 (BioLegend Cat. No. 395811)

Antigen Details

Structure	12KD, Ig like structure
Distribution	Leukocytes, platelets, endothelial cells, epithelial cells and other nucleated cells.
Function	Form MHC class I

Interaction	MHC class I heavy chain and other MHC I like molecules.
Cell Type	Endothelial cells, Epithelial cells, Leukocytes, Platelets
Antigen References	1. Engelhard VH. 1994. <i>Curr Opin Immunol.</i> 6:13. 2. Williams DB, <i>et al.</i> 1989. <i>J Immunol.</i> 142:2796. 3. Danliczyk UG and TL. Delovitch. 1994. <i>J Immunol.</i> 153:3533. 4. Williams A, <i>et al.</i> 2002. <i>Tissue Antigens.</i> 59:3.
Gene ID	567

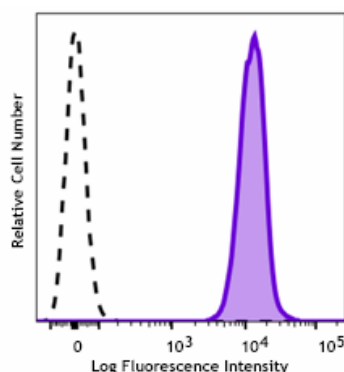
Related Protocols

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

Other Formats

PE anti-human β 2-microglobulin, PerCP/Cyanine5.5 anti-human β 2-microglobulin, APC/Fire™ 750 anti-human β 2-microglobulin, APC anti-human β 2-microglobulin, APC/Cyanine7 anti-human β 2-microglobulin

Product Data



Human peripheral blood lymphocytes were stained with anti-human β 2-microglobulin (clone A17082E) APC/Cyanine7 (filled histogram) or mouse IgG1, κ APC/Cyanine7 isotype control (open histogram).

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