

Alexa Fluor[®] 700 anti-human β 2-microglobulin Antibody

Catalog# / Size	395707 / 25 tests 395708 / 100 tests
Clone	A17082A
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 Alexa Fluor [®] 700 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
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. * Alexa Fluor [®] 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor [®] 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome. Alexa Fluor [®] and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses
Excitation Laser	Red Laser (633 nm)
Application Notes	Clone A17082A partially cross-blocks anti-human β 2-microglobulin clone 2M2 and does not block anti-human HLA-A,B,C clone W6/32 staining, based on in-house testing.
RRID	AB_2801056 (BioLegend Cat. No. 395707) AB_2801057 (BioLegend Cat. No. 395708)

Antigen Details

Structure	12 KD, 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	Antigen-presenting cells, Endothelial cells, Epithelial cells, Leukocytes, Platelets
Biology Area	Cancer Biomarkers, Immunology, Innate Immunity
Molecular Family	MHC Antigens
Antigen References	<ol style="list-style-type: none"> 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](#)

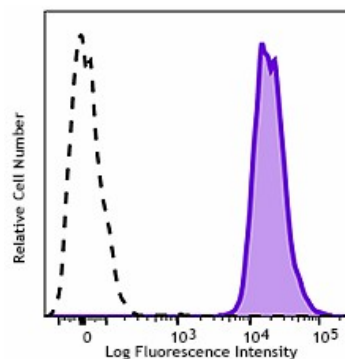
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human β 2-microglobulin, FITC anti-human β 2-microglobulin, Alexa Fluor® 700 anti-human β 2-microglobulin, APC/Fire™ 750 anti-human β 2-microglobulin, PE anti-human β 2-microglobulin, APC anti-human β 2-microglobulin, PE/Cyanine7 anti-human β 2-microglobulin, PerCP/Cyanine5.5 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 A17082A) Alexa Fluor® 700 (Filled Histogram) or Mouse IgG1, κ Alexa Fluor® 700 Isotype Control (open histogram).

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