



A6-237-C100

Monoclonal Antibody to beta2-Microglobulin Alexa Fluor® 647 conjugated (0.1 mg)

Clone:	B2M-01
Isotype:	Mouse IgG2a
Specificity:	The antibody B2M-01 reacts with beta2-microglobulin (beta2M) associated with cell-surface MHC Class I molecules and other membrane antigens as well as with soluble beta2-microglobulin. Beta2M is a 12 kDa Ig like glycoprotein expressed on lymphocytes, thymocytes, monocytes, granulocytes, platelets, endothelial cells and epithelial cells. It is absent on erythrocytes.
Regulatory Status:	RUO
Immunogen:	Purified human beta2-microglobulin
Species Reactivity:	Human
Negative Species:	Mouse, Bovine, Canine (Dog), Rabbit, Chicken
Preparation:	The purified antibody is conjugated with Alexa Fluor® 647 under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis. Suggested working dilution is 2 µg/ml. Indicated dilution is recommended starting point for use of this product. Working concentrations should be determined by the investigator.
Expiration:	See vial label
Lot Number:	See vial label
Background:	Beta2-microglobulin non-covalently associates with the 44 kDa alpha chain to forms the HLA Class I antigen complex. Human beta2-microglobulin associated with HLA Class I antigens is expressed on many types of cells including lymphocytes, thymocytes, monocytes, granulocytes, platelets, endothelial cells, and epithelial cells. It is absent on erythrocytes.
References:	*Hilgert I, Horejsi V, Kristofova H: The use of murine monoclonal antibody B2M-01 for detection and purification of human beta 2-microglobulin. Folia Biol (Praha). 1984;30(6):369-76. *Khurana M, Traum AZ, Aivado M, Wells MP, Guerrero M, Grall F, Libermann TA, Schachter AD: Urine proteomic profiling of pediatric nephrotic syndrome. Pediatr Nephrol. 2006 Sep;21(9):1257-65. Epub 2006 Jun 30. *Lafon M, Prehaud C, Megret F, Lafage M, Mouillot G, Roa M, Moreau P, Rouas-Freiss N, Carosella ED: Modulation of HLA-G Expression in Human Neural Cells after Neurotropic Viral Infections. J Virol. 2005 Dec; 79(24): 15226-15237. *Poláková K, Železníková T, Russ G: HLA-G5 in the blood of leukemia patients and healthy individuals. Leuk Res. 2013 Feb;37(2):139-45.

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Antibodies

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