

TECHNICAL DATA SHEET

CyFlow™ Beta2-MG FITC Anti-Hu; Clone B2M-01

REF BX569639

**For Research Use Only.
Not for use in diagnostic or therapeutic procedures.**

Specifications

Antigen	β2-microglobulin
Alternative Names	—
Clone	B2M-01
Clonality	monoclonal
Format	FITC
Host / Isotype	Mouse / IgG2a
Species Reactivity	Human
Negative Species Reactivity	Mouse Cow Dog Rabbit Chicken
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Purified human β2-microglobulin

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Specificity

The mouse monoclonal antibody B2M-01 recognizes β 2-microglobulin associated with cell-surface MHC Class I molecules and other membrane antigens as well as with soluble β 2-microglobulin. β 2-microglobulin is a 12 kDa Ig like glycoprotein expressed on lymphocytes, thymocytes, monocytes, granulocytes, platelets, endothelial cells and epithelial cells. It is absent on erythrocytes.

Application

The reagent is designed for Flow Cytometry analysis. Suggested working usage is 5 μ g/ml. Indicated dilution is recommended starting point for use of this product, but working concentrations should be validated by the investigator.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH \approx 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

β 2-microglobulin (β 2M) non-covalently associates with the 44 kDa α chain to forms the HLA Class I antigen complex. Human β 2-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. < PMID: 6394369 >

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- 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. < PMID: 16306594 >
- 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. < PMID: 16810512 >
- 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. < PMID: 23146557 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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