

TECHNICAL DATA SHEET

CyFlow™ Beta2-MG Purified Anti-Hu; Clone B2M-02

REF AL816234

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	β2-microglobulin
Alternative Names	—
Clone	B2M-02
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human, Pig
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Purified isolated human β2-microglobulin

Specificity

The mouse monoclonal antibody B2M-02 recognizes β2-microglobulin associated with cell-surface MHC Class I molecules and other membrane antigens as well as with soluble β2-microglobulin. β2-

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

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

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Western blot
- Immunohistochemistry (paraffin-embedded sections)
- Enzyme-linked immunosorbent assay

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 form 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 >
- Drbal K, Angelisova P, Hilgert I, Cerny J, Novak P, Horejsi V: A proteolytically truncated form of free CD18, the common chain of leukocyte integrins, as a novel marker of activated myeloid cells. Blood. 2001 Sep 1; 98(5):1561-6. < PMID: 11520808 >

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

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