

## TECHNICAL DATA SHEET

### CyFlow™ Beta2-MG Biotin Anti-Hu; Clone B2M-02

**REF** AX671930

**For Research Use Only.**

**Not for use in diagnostic or therapeutic procedures.**

### Specifications

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

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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 indirect immunofluorescence analysis by Flow Cytometry. Suggested working usage is 5 µg/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 ≈7.4, containing 0.1% (w/v) sodium azide.

## Storage and Stability

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

## Background Information

β2-microglobulin (β2M) non-covalently associates with the 44 kDa α chain to form the HLA Class I antigen complex. Human β2-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 >

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The Safety Data Sheet for this product is available at [www.sysmex-partec.com/services](http://www.sysmex-partec.com/services).

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