

## TECHNICAL DATA SHEET

### CyFlow™ Beta2-MG Alexa Fluor™ 647 Anti-Hu; Clone B2M-01

**REF** AB793544

**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-01
<b>Clonality</b>	monoclonal
<b>Format</b>	Alexa Fluor™ 647
<b>Host / Isotype</b>	Mouse / IgG2a
<b>Species Reactivity</b>	Human
<b>Negative Species Reactivity</b>	Mouse   Cow   Dog   Rabbit   Chicken
<b>Quantity [Concentration]</b>	0.1 mg [ 1 mg/ml ]
<b>Immunogen</b>	Purified human β2-microglobulin

#### 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](mailto:info@sysmex-partec.com)

## Specificity

The mouse monoclonal antibody B2M-01 recognizes  $\beta$ 2-microglobulin associated with cell-surface MHC Class I molecules and other membrane antigens as well as with soluble  $\beta$ 2-microglobulin.  $\beta$ 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 2  $\mu$ 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

<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

$\beta$ 2-microglobulin ( $\beta$ 2M) non-covalently associates with the 44 kDa  $\alpha$  chain to forms the HLA Class I antigen complex. Human  $\beta$ 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

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- 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 >

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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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