

## TECHNICAL DATA SHEET

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

**REF** AB793544



**Sysmex Partec GmbH**  
Arndtstraße 11 a-b  
02826 Görlitz  
Tel +49 3581 8746 0  
E-mail: [info@sysmex-partec.com](mailto:info@sysmex-partec.com)  
[www.sysmex-partec.com](http://www.sysmex-partec.com)

**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

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



## 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 0.09% (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 form 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.

## Warnings

**Non-Hazardous Statement:** This is not considered hazardous by the criteria in 29 CFR 1910.1200 or the General Classification guideline for preparations of the EU.

**Safety Data Sheet Statement:** Important information regarding the safe handling, transport, and disposal of this product is contained in the Safety Data Sheet.










---

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

## 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 >
- 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 >

## Symbols

	Reagent catalogue number		Contains sufficient for <n> tests
	For Research Use Only. Not for use in diagnostic and therapeutic procedures.		Temperature limitation
	Batch code		Keep away from sunlight
	Manufacturer		Consult accompanying documents
	Use by		

This product is provided under an intellectual property license from Life Technologies Corporation. The transfer of this product is conditioned on the buyer using the purchased product solely in research conducted by the buyer, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or [outlicensing@lifetech.com](mailto:outlicensing@lifetech.com).