

TECHNICAL DATA SHEET

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

REF AR024953



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For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	β2-microglobulin
Alternative Names	—
Clone	B2M-01
Clonality	monoclonal
Format	HRP
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

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 quantitative determination of soluble beta2-microglobulin/MHC Class I complexes. The reagent can also be used for detection of free beta2-microglobulin by western blotting. Working concentrations should be determined by the inv

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH \approx 7.4, containing 0.01% (w/v) thimerosal.

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.

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 (SDS). SDS are available at <http://www.sysmex-partec.com/services>, or at <https://us.sysmex-flowcytometry.com/> (U.S. customers only).

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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- 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

	Reference number		Contains sufficient for <n> tests
	For research use only		Temperature limit
	Batch code		Keep away from sunlight
	Manufacturer		Consult accompanying documents
	Use-by date		Unique device identifier