

# Datasheet



Mouse mAb to **Beta-2 microglobulin**  
Clone **EBS-O-109**  
Isotype **IgG2a-κ**

## Source

A BALB/c mouse was immunized with human PBL from a T-ALL patient.  
Fusion partner: NS-1.

## Specifications

EBS-O-109 reacts with human  $\beta$ -2 microglobulin, a 22 kDa protein, which associates non-covalently with the 44kDa  $\alpha$ 1-chain of the HLA Class I complex found on all nucleated cells and on platelets. There is no reaction with erythrocytes, neither with non-human primate cells. The detection of  $\beta$ -2 microglobulin in body fluids has been used as a tumor marker, renal failure marker and for monitoring patients with HIV infection.

## Species reactivity

Positive: human.  
Negative: non human primates.

## Applications

Detection of human  $\beta$ -2 microglobulin as a.o. tumor marker, renal failure marker and for monitoring HIV patients.

ELISA	Flow cytometry	Frozen sections
+	+	+

## Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02 % sodium azide.

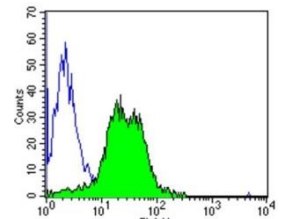
Stored at 4°C- 8°C, shelf life is at least 24 months after purchase.

## Dilution advice

- ELISA (solid phase: 0,1-100  $\mu$ g/ml; tracer: 0,001-100  $\mu$ g/ml for 30 min at RT).
- Flow cytometry (0,5-1,0  $\mu$ g/million cells in 0,1 ml).
- Immunohistology (1-2  $\mu$ g/ml for 30-60 minutes at RT; information on a suitable antigen retrieval method for staining of formalin-fixed tissues is unavailable to date).

## Positive control

Human PBL.



**Figure 1:** Jurkat cells stained with EBS-O-109 (FACS)

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## References

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- Sparrow R.L. Human cell surface antigens defined by monoclonal antibodies. PhD thesis, University of Melbourne, (1983).
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- Betts RL, et al. Monoclonal hybridoma antibodies: Techniques and applications. Edited by D. Hurrel. Uniscience series program. C.R.C. Press, Cleveland, OH: (1983), pp. 193-222.
- Cosgrove LJ, et al, *Immunol. Cell Biol.* **66 (1)**: 69-77 (1988).