

Datasheet



Mouse mAb to **MHC I ABC**
Clone **EBS-O-104**
Isotype **IgG2a-κ**

Source

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

Specifications

EBS-O-104 reacts with a monomorphic determinant of human major histocompatibility (MHC) class I antigens (HLA-A, B and C). Human MHC class I antigens are expressed constitutively on all nucleated cells lymphocytes such as lymphocytes, thymocytes, granulocytes, and bone marrow cells and also platelets but are absent on erythrocytes. MHC class I antigens play a role in class I MHC-associated antigen presentation, inhibition of NK cell cytotoxicity, tumor surveillance, and tissue allotransplantation.

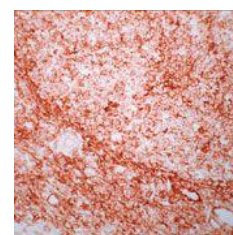


Figure 1: Human tonsil stained with EBS-O-104 (frozen)

Species reactivity

Positive: human, monkey, mouse.

Applications

Demonstration of MHC I A, B, C.

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

- Flow cytometry (0,5-1,0 µg/million cells in 0,1 ml).
- Immunohistology (1-2 µg/ml for 30 min at RT; an appropriate antigen retrieval method for staining of formalin-fixed tissues has not been established to date).

Positive control

THP-1 and Jurkat cells. Tonsil or lymph node.

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References

- Young NT et al. *Hum Immunol* **52(1)**: 1-11 (1997).
- Krensky AM et al, *Transplant Proc* **28(6)**: 3026-8 (1996).
- Hansen JA et al, *Hematol Oncol Clin North Am* **4(3)**: 507-515 (1990).
- Sparrow RL. Human cell surface antigens defined by monoclonal antibodies. PhD thesis, University of Melbourne, (1983).