

Datasheet



Mouse mAb to **CD8b**
Clone **EBS-CD-007**
Isotype **IgG1-κ**

Source

A BALB/c mouse was immunized with human PBL.
Fusion partner: NS-1.

Specifications

EBS-CD-007 recognized a protein of 32 kDa, identified as CD8b. The CD8 molecule consists of α and β chains, which are disulphide-linked into heterodimers or homodimers. CD8 is expressed on a T-cell subset (cytotoxic-suppressor T-cells), thymocytes and NK cells. The majority of CD8⁺ T-cells express CD8 as heterodimer. Some subpopulation of CD8⁺ T-cells as well as NK-cells may express homodimer. CD8 functions as a co-receptor in concert with TCR for binding the MHC class I/peptide complex. HIV-2 envelope glycoprotein binds CD8 α chain but not β chain.

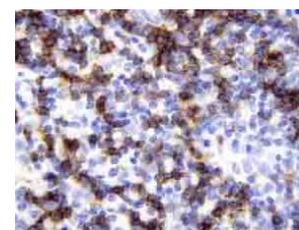


Figure 1: Human tonsil stained for CD8b (frozen section).

Species reactivity

Positive: human.

Applications

Characterization of leukemia and lymphoma.

Flow cytometry	Frozen sections	Immunofluorescence	Paraffin 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 μ g/million cells in 0,1 ml).
- Immunofluorescence (0,5-1,0 μ g/ml).
- Immunohistology (1-2 μ g/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

HuT78 or hPBL. tonsil.

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References

- Knapp W. et. al. Leukocyte Typing IV, p342-343, Oxford University Press, 1989.
- Parnes JR, *Semin Immunol* **6**: 221-229 (1994).
- Hadi Hossein Nataj Arab et al., *Gastroenterol Hepatol Bed Bench.* **8(2)**: 132-139 (2015).