Datasheet

Mouse mAb to **CD16**
Clone **CB16**
Isotype **IgM-κ**

Source

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

Specifications

CB16 specifically recognizes CD 16. This molecule also named low affinity Fc-receptor for IgG (FcgammaRIII) exhibits two truncated Ig-like domains and is 50-80 kDa. It is highly expressed on NK-cells, granulocytes and macrophages. CB16 binds to 15% peripheral lymphocytes of healthy donors (NK-cells), granulocytes, macrophages. CD16 represents the functional receptor structure for antibody-dependent cellular cytotoxicity.

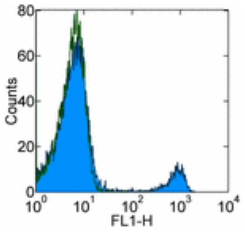

Figure 1: Human PBL stained with CB16 (FACS).

Species reactivity

Positive: human.

Applications

CB16 can be used for staining of frozen tissues and in flow cytometry on NK-cells, monocytes, granulocytes.

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.

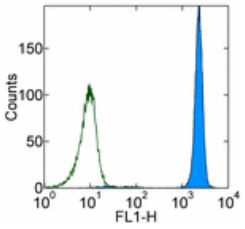

Figure 2: Human granulocytes stained with CB16 (FACS).

Dilution advice

- Flow cytometry (0,5-1,0 µg/million cells in 0,1 ml).
- Immunofluorescence (0,5-1,0 µg/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

K-562 or U-937 cells. Lymph nodes and Tonsils.

References

- Deaglio S. et al., *Blood* **99(7)**: 2490-8 (2002).
- Zilber MT et al. *Proc Natl Acad Sci U S A* **97(6)**: 2840-5 (2000).
- Wirthmueller U et al. *J Exp Med.* **175(5)**: 1381-90 (1992).