Datasheet

Mouse mAb to **CD20**
Clone **93-1B3**
Isotype **IgG1-κ**

Source

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

Specifications

93-1B3 binds with CD20 which is a 30/33 kDa non-glycosylated transmembrane phosphoprotein with three extensive hydrophobic regions. CD20 is involved in regulation of B-cell activation. It is expressed on the surface of all B-cells beginning at the pro-B phase (CD45R+, CD117+) and progressively increasing in concentration until maturity. Plasma cells are negative. CD20 is retained on many B-cell malignancies. CD20 positive cells are also sometimes found in cases of Hodgkin's disease, myeloma, and thymoma. 93-1B3 has been clustered at the IIIrd and Vth HLDA Workshops.

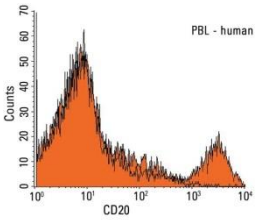

Figure 1: Human PBLs stained for CD20 (FACS).

Species reactivity

Positive: human.

Applications

93-1B3 reacts with pre B-cells, resting and activated B-cells but not with plasma cells. It can be applied for characterization of leukemia and malignant cells.

Flow cytometry	Frozen sections	Functional studies
+	+	+

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).
- Functional studies (0,02-2,0 µg/ml without azide).
- 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

Daudi, Raji, U266, human lymphocytes. Lymph nodes and tonsils.

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References

- Cobbold, S. et al., in leucocyte typing III (ed. McMichael A.J. et al.), Oxford University Press (1987).
- Schlossman S, et al. (eds). Leukocyte Typing V, Oxford University Press, Oxford, p511-515, (1995).