Datasheet

Mouse mAb to **CD22**
Clone **FR10B4**
Isotype **IgG1-κ**

Source

A BALB/c mouse was immunized with RAJI cells.
Fusion partner: X63-Ag8.653.

Specifications

FR10B4 reacts with high affinity to CD22, which is expressed in the cytoplasma of all B-cells, appearing as early as cell-surface CD19 during B-cell development. It's present on the surface of most mature sIg+ B-cells with especially high expression on hairy cell and prolymphocytic leukemia cells. CD22 is a member of the immunoglobulin super-family and acts as an adhesion molecule: BL-CAM. On frozen sections, CD22 is found highly expressed in follicular mantle and marginal zone B-cells, while germinal centre B-cells react relatively weakly.

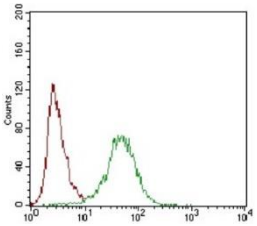

Figure 1: Human PBL stained for CD22 (FACS).

Species reactivity

Positive: human.

Applications

FR10B4 can be used for leukemia typing, B-lineage assignment, and for identifying mature B-cells in flow cytometry. Furthermore it can be used for studying B-cell adhesion and also for identifying B-cell lymphomas.

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 µg/million cells in 0, 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

Raji, Daudi, IM9, Jy25 and human peripheral blood lymphocytes or tonsil.

References

- Campana, D., et al., in : Knapp, W., et al. (eds), Leucocyte Typing IV, Oxford Univ. Press, (1989), pp 190-192.