Datasheet

Mouse mAb to **CD19**
Clone **CB19**
Isotype **IgG1-κ**

Source

A BALB/c mouse was immunized with human PBLs.
Fusion partner: SP2/0.

Specifications

CB19 is specific for the antigen CD19. This antigen has a MW of 120 kDa and contains a 280 residue extracellular domain and a 240 residue cytoplasmic domain. It is a critical signal transduction molecule that regulates B-lymphocyte development, activation, and differentiation. It plays a dominant role in establishing signalling thresholds for antigen receptors and other surface receptors on B-lymphocytes. This antigen is lost upon terminal differentiation to plasma cells.

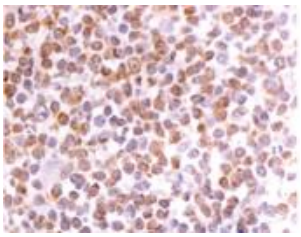

Figure 1: Small lymphocytic lymphoma stained with CB19.

Species reactivity

Positive: Human, Mouse.

Applications

CB19 can be used for immunophenotyping of leukemia and malignant cells in frozen tissue, B lymphocyte detection in peripheral blood, B cell localization in tissues and B lymphocyte purification by immunoadsorption methods.

Flow cytometry	Frozen sections	Immunofluorescence
+	+	+

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.

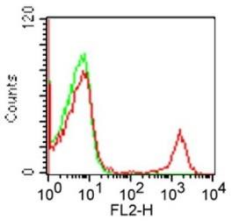

Figure 2: Human PBL stained with CB19 (FACS).

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 30-60 min at RT; information on a suitable antigen retrieval method for staining of formalin-fixed tissues is unavailable to date).

Positive control

Raji cells, human tonsil or lymph node.

References

- Deaglio, S., et. al. *J Immunol.* **160(1)**: 395-402 (1998).