Datasheet

Mouse mAb to **CD10**
Clone **FR4D11**
Isotype **IgG1-κ**

Source

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

Specifications

FR4D11 reacts with high affinity to CD10 or CALLA, a cell surface enzyme with neutral metalloendopeptidase activity, inactivating a variety of biologically active peptides. CD10 is a 100 kDa glycoprotein, expressed on 70% of pre-B ALL-cells (common ALL), but also on early lymphoid progenitor-cells in bone marrow and fetal liver. Other normal CD10 positive tissues include renal epithelium, fibroblasts and germinal centre B-cells. Density of CD10 antigen has been shown to be related to cell differentiation and may have prognostic value for B-cell lineage acute leukemia. CD10 is also present on breast myoepithelial cells, bile canaliculi, fibroblasts, with especially high expression on the brush border of kidney and gut epithelial cells.

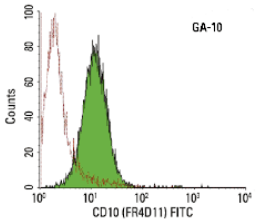

Figure 1: Burkitt's lymphoma stained with FR4D11 (FACS).

Species reactivity

Positive: human.

Applications

FR4D11 can be used for the classification of acute leukemias and childhood ALL prognosis (patients (CD10+ have a better prognosis than CD10-).

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.

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

Raji cells, tonsil, small intestine or kidney.

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References

- Brown, B. et al., *J. Natl. Canc. Inst,.***55***:* 1281-1289 (1975).
- Tran-Paterson, R. et al., *Blood*, **76**: 775-782 (1990).
- Doerken, B. et al., in Knapp, W. et. al. (eds)., Leucocyte Typing IV, Oxford Univ. Press, pp 33-34.
- Lavabre-Bertrand, T., et. al., *Cytometry*, **18**: 209-217 (1994).