

Datasheet



Mouse mAb to **CD15/FUT4/Le^x**
Clone **FR4A5**
Isotype **IgM-κ**

Source

A BALB/c mouse was immunized with RAJI (Burkitt's lymphoma) cells. Splenocytes were fused with mouse myeloma X63Ag8/653 cells.

Specifications

FR4A5 reacts with CD15 (220 kDa). CD15 contains the pentasaccharide lacto-n-fucopentaose III and plays a role in mediating phagocytosis, bactericidal activity, and chemotaxis. It is present on >95% of granulocytes including neutrophils and eosinophils and to a lesser degree on monocytes. In addition, CD15 is expressed in Reed-Sternberg cells and some epithelial cells. CD15 is occasionally expressed in large cell lymphomas of both B and T phenotypes which otherwise have a quite distinct histological appearance. It is also expressed on a wide variety of other tumor cells including myeloid leukemia, breast, colorectal, and lung cancer cells. Cross reactivity has been observed with Glcα1-6glcα1-4Glc, Tn, blood group H1, and maltose.

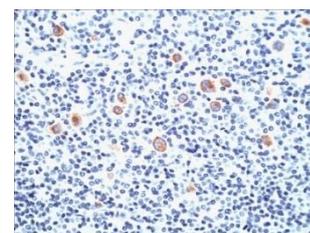


Figure 1: Human Hodgkin's Lymphoma stained for CD15 (frozen section).

Species reactivity

Positive: human.

Applications

FR4A5 can be used for enumeration of granulocytes in peripheral blood, functional studies of granulocytes (e.g. respiratory bursts, chemotaxis, phagocytosis, C5a binding), myeloid leukemia phenotyping and for identifying Reed-Sternberg cells in frozen sections of Hodgkin's disease.

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 0,1 ml).
- Immunofluorescence (0,5-1,0 µg/ml).
- Immunohistology (1-2 µg/ml for 30 min at RT).

Positive control

U937 cells, Reed-Sternberg's cells in Hodgkin's lymphoma.

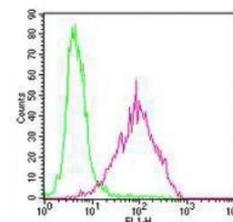


Figure 2: Jurkat cells stained for CD15 (FACS).

Datasheet



References

- Manimala J.C. et al. *Glycobiology*. **17(8)**: 17C-23C (2007).
- Gildersleeve J. et al. *Glycobiology*. **18(0)**: 746 (2008).