

Datasheet



Mouse mAb to **CD45RA**
Clone **111-1C5**
Isotype **IgG1-κ**

Source

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

Specifications

CD45 glycoproteins have various molecular weights on various cell types: B-cells 240 kDa, thymocytes 180 kDa, T-cell multiple bands. Reduced in PAGE gels: 180 and 240 kDa. Relevant epitopes are termed CD45RA (exon 4), CD45RB (exon 5), CD45RC (exon 6) and CD45R or CD45R0 (exons 4-6 spliced out). 111-1C5 was clustered in Oxford at the IIIrd International CD workshop as anti CD45RA, useful to differentiate “naïve” T-cells from activated (CD45R0⁺) T-cells, or to differentiate T-cell lymphomas (CD45R0⁺) from B-cell lymphomas (CD45RA⁺).

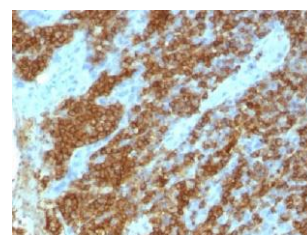


Figure 1: Human tonsil stained with 111-1C5 (paraffin).

Species reactivity

Positive: human.

Applications

MAbs against CD45 can be used to differentiate lymphomas from carcinomas. In Hodgkin's disease CD45 is usually not expressed.

Flow cytometry	Frozen sections	Immunofluorescence	Paraffin sections
+	+	+	Citrate

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 (formalin-fixed: 1-2 µg/ml for 30 min at RT; staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6,0, for 10-20 min followed by cooling at RT for 20 minutes).

Positive control

Daudi, Raji, IM9 and human lymphocytes. Human lymph node and tonsil.

References

- Cobbold S, et. al. Leucocyte Typing III (ed. McMichael AJ et. al.), Oxford University Press, pp789-803, (1987).