

Datasheet



Mouse mAb to **CD45RB**
Clone **Bra11 (Bra11G)**
Isotype **IgG1-κ**

Source

A BALB/c mouse was immunized with non-T, non-B CALLA positive ALL cell line REH.
Fusion partner: SP2/0.

Specifications

CD45 glycoproteins have various molecular weights on various cell types: B-cell 240 kDa, thymocytes 180 kDa, T-cells multiple bands. Reduced in PAGE gels: 180 and 240 kDa. Relevant epitopes are termed CD45RA (exon 4), CD45RB (exon5), CD45RC (exon 6) and CD45R or CD45R0 (exons 4-6 spliced out). Bra11 reacts with CD45RB, which is expressed on mature B-lymphocytes and the majority of lymphomas and leukemia's of B-cell origin. CD45RB is also expressed on cells of myeloid lineage.

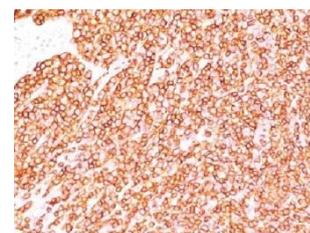


Figure 1: Human tonsil stained with Bra11 (paraffin).

Species reactivity

Positive: human.
Negative: rat, rhesus monkey.

Applications

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

ELISA	Flow cytometry	Frozen sections	Immunofluorescence	Paraffin sections	Western blot
+	+	+	+	+	+

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

- ELISA (solid phase: not known; tracer: 0,001-100 µg/ml for 30 min at RT).
- 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 does not require antigen retrieval pre-treatment).

Positive control

Ramos, U-698, or GA-10 cells. Tonsil.

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References

- Sedlák J, et al. *Neoplasma*: **36(6)**: 643-50 (1989).
- Knapp, W. et al., Leucocyte typing IV, p 634-637. Oxford Univ. Press. (1989).
- Schlossman S.F. et al. Leukocyte typing V, Oxford University Press, (1995).
- Mitchell GB, et al., *Eur J Immunol*. **29(5)**:1467-76 (1999).