

Datasheet



Mouse mAb to **CD45**
Clone **Bra55**
Isotype **IgG1-κ**

Source

A BALB/c mouse was immunized with cells of the non-T, non-B acute lymphoblastic leukemia cell line REH 6.

Specifications

CD45 glycoprotein have various molecular weight on various cell types: B-cells 240 kDa, thymocytes 180 kDa, T-cells multiple bands. Reduced in PAGE gels: 180 and 240 kDa. Isoforms are produced by alternative splicing of domains 4, 5 and 6. Various isoform are expressed differently on different lymphocytes. All hematopoietic cells express CD45 proteins except erythrocytes. Relevant epitopes are termed CD45RA (exon 4), CD45RB (exon 5), CD45RC (exon 6) and CD45R or CD45R0 (exon 4-6 spliced out).

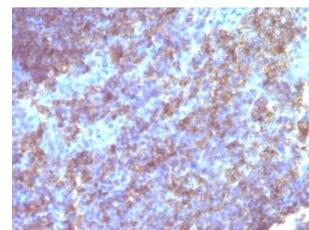


Figure 1: Human tonsil stained with Bra55 (paraffin).

Species reactivity

Positive: human.

Applications

MAbs against CD45 can be used to differentiate lymphomas from carcinomas. While CD45RA is expressed mainly on B-cell lymphomas, CD45R is mainly expressed on T-cell lymphomas. In Hodgkin's disease CD45 is usually not expressed.

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

- 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).
- Immunoblotting (0,5-1,0 µg/ml).
- Immunofluorescence (0,5-1,0 µg/ml).
- Immunohistology (formalin-fixed: 2-4 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

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

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References

- Chorváth et al., *Neoplasma* **34(6)**, 685-692, (1987).
- Chorváth et al., *Neoplasma* **35(5)**, 495-501, (1988).
- Chorváth et al. Leukocyte Typing IV, pp. 634-637, (1989).