

# Datasheet



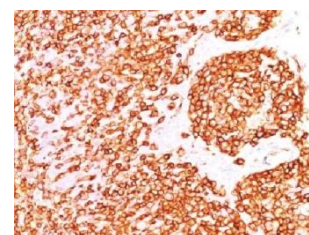
Mouse mAb to **CD45RB**  
Clone **128-4G2**  
Isotype **IgG3-κ**

## 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-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 (exon 5), CD45RC (exon 6) and CD45R or CD45R0 (exons 4-6 spliced out). 128-4G2 reacts with CD45RB, which is expressed on mature B-lymphocytes and the majority of lymphomas and leukemias of B-cell origin. CD45RB is also expressed on cells of myeloid lineage.



**Figure 1:** Human tonsil stained with 128-4G2 (paraffin).

## Species reactivity

Positive: human.  
Negative: rat.

## 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

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

## References

- Schlossman S.F. et al. In Leukocyte typing V, Oxford University Press, 501, 631, 644, 727 (1995).