

# Datasheet



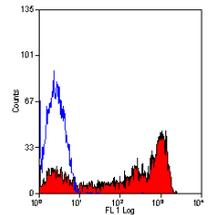
Mouse mAb to **CD45R0**  
Clone **EBS-CD-027**  
Isotype **IgG2a-κ**

## Source

A BALB/c mouse was immunized with lentil lectin purified glycoproteins from leucocytes from a B-cell CCL patient. 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) EBS-CD-027 reacts with mature activated T-cells, most thymocytes, and a sub-population of resting T-cells within both CD4 and CD8 subsets. It shows no reactivity with normal B-cells or natural killer cells, but reacts with granulocytes and monocytes. Reportedly, it is useful to identify T-cell lymphomas and leukemia's. It rarely stains NK-cells or B-cell lymphomas.



**Figure 1:** Human PBL stained for CD45R0 (FACS).

## 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
+	+	+

## 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; an appropriate antigen retrieval method for staining of formalin-fixed tissues has not been established to date).

## Positive control

CCRF-CEM, Jurkat or MOLT-4 cells. Paracortex in tonsil or reactive lymph node..

## References

- Sparrow RL et al, *Transplantation* **36**: 166 171 (1983).