

MONOCLONAL ANTIBODY CD45RA

Cat. No.	Form	Quantity	Presentation
0537	Purified	0.2 mg	Freeze-dried
0584	FITC	100 tests	Liquid 2ml
0699	Purified	100 tests	Liquid 2ml
1834	Phycoerythrin	100 tests	Liquid 2 ml

Clone ALB11

Isotype IgG1 (mouse)

Immunogen Human T-ALL cells.

Hybridoma Myeloma NS1 X Balb/c spleen cells

Specificity The molecular weight of the recognized antigen is 220 kDa. It is an isoform of CD45 (leucocyte common antigen).
 CD45RA is positive on a T-cell subset, B cells, and monocytes. It reacts weakly with granulocytes.
 Expression of CD45RA by CD4 positive cells characterizes the suppressor inducer T cell subset.

Applications Studies have shown that CD45RA antibodies can be useful in the identification of lymphomas.

Buffer Freeze-dried forms: 1 mg/ml bovine serum albumin in phosphate buffered saline.
 Liquid forms: 2 mg/ml bovine serum albumin in phosphate buffered saline containing 0.1% sodium azide.

Reconstitution and Storage The freeze-dried form may be stored at 2-8°C until the expiration date. Reconstitute with 1 ml of distilled water. No preservative has been added. The reconstituted form may be stored at -20°C until the expiration date. Aliquotting is suggested to avoid multiple freeze-thaw cycles. The addition of sodium azide at 0.1% (w/v) is recommended for storage of the reconstituted form for up to one month at 2-8°C.
 The purified liquid form should be stored at 2 - 8°C
 The conjugated forms should not be frozen and should be stored in the dark at 2 - 8°C

April 18, 1995

MA003

FOR RESEARCH USE ONLY - NOT FOR USE IN DIAGNOSTIC PROCEDURES



**Recommended
Procedures**

Fluorescent microscopy or flow cytometry:

Liquid form: 20 µl/5x10⁵ cells/test or 100 µl whole blood,

Freeze-dried form: 2 µg/5x10⁵ cells/test,

Immunohistochemistry:

Suggested form: freeze-dried

Working dilution 1:50 to 1:100.

This antibody is suitable on frozen or paraffin tissue sections.

References

1) Morimoto, C., Letvin, N.L., Distaso, J.A., Aldrich, W.R., and Scholssman, S.F. "The isolation and characterization of the human suppressor inducer T cell subset" 1985 J. Immunol. **134**, (3), 1508-1515.

2) Morimoto, C., Letvin, N.L., Boyd, A.W., Hagan, M., Brown, H.M., Kornacki, M., and Scholssman, S.F. "The isolation and characterization of the human helper inducer T cell subset" 1985 J. Immunol. **134**, (6), 3762-3769.

3) Lightstone, E.B., Marvel, J., "CD45RA is detected in all thymocyte subsets defined by CD4 and CD8 by using three-colour flow cytometry", 1990, Immunology, **71**, 467-472.

This antibody has been studied at the Vth International workshop on Human leucocyte Differentiation Antigens in Boston (1993)