

# Monoclonal Antibody CD45RA

PN IM0537 – Purified – Freeze-dried – 0.2 mg – Clone ALB11

For Research Use Only. Not for use in diagnostic procedures.

## SPECIFICITY

CD45RA epitopes are present on all the CD45 restricted molecules in which the exon A is expressed (ABC and AB containing isoforms). Most B lymphocytes express CD45RA isoforms. The differential expression of CD45 isoforms is associated with different functional properties of T lymphocyte. Peripheral T lymphocytes can be divided into two largely distinct populations of CD45RA<sup>-</sup> CD45RO<sup>+</sup> and CD45RA<sup>+</sup> CD45RO<sup>-</sup> cells. CD45RA is expressed by medullar thymocytes and naive/resting peripheral CD4<sup>+</sup> T lymphocytes.

ALB11 reacts with significant portions of peripheral CD4<sup>+</sup> T cells, of peripheral CD8<sup>+</sup> T lymphocytes, of B lymphocytes and of monocytes. The coexpression of CD4 and CD45RA allows the identification of the suppressor-inducer subpopulation of CD4 lymphocytes.

The ALB11 mAb has been assigned to the CD45RA cluster of differentiation at the fifth International Workshop on Human Leucocyte Differentiation Antigens held in Boston, USA, in 1993 (1).

## REAGENT

Monoclonal Antibody CD45RA  
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<b>Clone</b>	ALB11
<b>Isotype</b>	IgG1, mouse
<b>Immunogen</b>	Human T-ALL cells.
<b>Hybridoma</b>	NS1 x Balb/c spleen cells
<b>Source</b>	Ascites fluid
<b>Purification</b>	Protein A affinity chromatography
<b>Buffer</b>	1 mg/mL bovine serum albumin in phosphate-

buffered saline

## APPLICATION

Studies of CD45RA positive cells by flow cytometry.

## STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use antibody beyond the expiration date on the label.
4. Do not expose reagents to strong light during storage or incubation.
5. Avoid microbial contamination of reagents or incorrect results might occur.

## STORAGE CONDITIONS AND STABILITY

This freeze-dried form may be stored at 2 – 8°C until the expiration date stated on the vial label.

No preservative has been added.

## REAGENT PREPARATION

Depending of usage, reconstitute with 1 mL of distilled water, with or without 0.1% sodium azide (w/v).

The reconstituted form including 0.1% sodium azide may be stored for up to one month at 2 – 8°C.

The reconstituted form without sodium azide can be stored at –20°C or less, until the expiration date stated on the vial label.

In this case, aliquotting is recommended to avoid multiple freezing / thawing cycles.

## PROCEDURE

For each application, it is recommended to establish the right range of antibody dilutions to be used for the experiment.

## SELECTED RESEARCH

### REFERENCES

1. Macardle, P.J., Flego, L., Khouri, H., Zola, H., "Classification of CD45 mAb according to the susceptibility of the CD45 isoforms to cleavage by papain", 1995, Leucocyte Typing V, White Cell Differentiation Antigens, Schlossman, S.F., et al., Eds., Oxford University Press, p 391-393.

## PRODUCT AVAILABILITY

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Manufactured by:

Immunotech, a Beckman Coulter Company  
130, avenue de Lattre de Tassigny, B.P. 177  
13276 Marseille Cedex 9, France

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