

# Monoclonal Antibody CD25

PN IM0119 – Purified – Freeze-dried – 0.2 mg – Clone B1.49.9

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

## SPECIFICITY

The CD25 (IL-2R $\alpha$ , Tac or p55) antigen is a single-chain glycoprotein with a molecular weight of 55 kDa which is the low affinity receptor for IL-2 (IL-2R $\alpha$ ). In conjunction with CD122 (IL-2R $\beta$ , p75) and CD132 (IL-2R $\gamma$ , p64), CD25 antigen forms the high-affinity IL-2R complex. CD25 antigen is found on activated T and B cells, on activated macrophages and on T cell clones. It is also expressed on NK cells enriched from peripheral blood lymphocytes by culturing in the presence of IL-2. It is absent from thymocytes and resting T and B lymphocytes.

B1.49.9 monoclonal antibody (mAb) does not block the binding of IL-2 to its receptor.

The B1.49.9 mAb has been assigned to the CD25 cluster of differentiation during the second International Workshop on Human Leucocyte Differentiation Antigens held in Boston, USA in 1984 (1).

## REAGENT

Monoclonal Antibody CD25  
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**Clone** B1.49.9

**Isotype** IgG2a  $\kappa$ , mouse

**Immunogen** Human alloactivated T lymphocytes (FC2) kept in conditioned medium

**Hybridoma** NS1/Ag.14.1 X Balb/c spleen cells

**Source** Ascites fluid

**Purification** Ion exchange or affinity chromatography

**Buffer** 1 mg/mL bovine serum albumin in phosphate-buffered saline

## APPLICATION

Studies of CD25 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. Avoid microbial contamination of reagents or incorrect results might occur.
5. Use good laboratory practices when handling this reagent.

## 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. Haynes, B.F., "CD25 New cluster of differentiation", 1985, Leucocyte Typing II, White Cell Differentiation Antigens, Reinherz, E.L., et al., Eds., Springer-Verlag., 277-279.

## PRODUCT AVAILABILITY

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For additional information in the USA, call 800-526-7694.

Outside the USA, contact your local Beckman Coulter representative.

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