

Monoclonal Antibody Anti-Rat CD25-PE

PN IM3073 – Freeze-dried– 100 tests – Clone OX-39

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

SPECIFICITY

The OX-39 monoclonal antibody (mAb) recognizes the 55 kDa α chain of the rat interleukin 2 receptor (IL-2R α) and does not interact with the β chain. IL-2R / IL-2 interaction is the major stimulus for the growth of activated lymphocytes (1). The OX-39 mAb binds to Concanavalin A-activated, but not resting, rat lymphocytes (2). Labelling on dendritic cells has been shown but appears to be restricted to the thymus (3).

REAGENT

Conjugated Monoclonal Antibody Anti-Rat CD25 -PE
PN IM3073 – Freeze-dried – 100 tests

Clone	OX-39
Isotype	IgG1
Species	Mouse
Purification	Protein A affinity chromatography purified IgG from tissue culture supernatant
Conjugation	R-phycoerythrin (PE) is conjugated at 0.7-1 mole of PE per mole of Ig

Excitation wavelength: 488 nm
Maximum emission wavelength: 575 nm
Main emission color: Orange-red

REAGENT CONTENTS

This antibody is supplied in phosphate-buffered saline (PBS) pH 7.4, containing 0.1% sodium azide and 1% bovine serum albumin.

STATEMENT OF WARNINGS

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. 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.

3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use reagent beyond the expiration date on the vial label.
5. Avoid microbial contamination of reagent or erroneous results may occur.
6. Use general good laboratory practices when handling this reagent.

STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date on the vial label when stored at 2 – 8°C. Minimize exposure to light and warmth.

REAGENT PREPARATION

This monoclonal antibody is provided in freeze-dried form and must be reconstituted with 1 mL of distilled water. Bring reagent to 20 - 25°C prior to use.

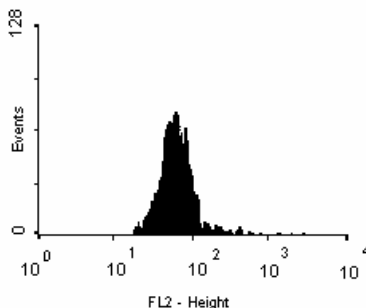
PROCEDURE

Flow Cytometry: 10 μ L is the usual amount of reagent required for 1 x 10⁶ cells or 100 μ L of whole blood.

It is recommended to establish the right range of antibody dilutions to be used for each experiment.

EXAMPLE DATA

The graph below shows representative results of staining obtained with this antibody on Con A activated rat spleen cells.



SELECTED RESEARCH REFERENCES

1. Jacques, Y., Paineau, J., Chevalier, S., Le Mauff, B., Souillou, J.P., "A study of OX39, a murine anti-rat interleukin 2 receptor antibody : A report on receptor binding and effects on allograft survival", 1988, *Transplant. Int.*, 1, 58-63.
2. Hayosh, N.S., Swanborg, R.H., "Autoimmune effector cells : Inhibition of adoptive transfer of autoimmune encephalomyelitis with a monoclonal antibody specific for interleukin 2 receptors", 1987, *J. Immunol.*, 11, 138, 3771-3775.
3. Paterson, D.J., Jefferies, W.A., Green, J.R., Brandon, M.R., Corthesy, P., Puklavec, M. Williams, A.F., "Antigens of activated rat T-lymphocytes including a molecule of 50,000 M, detected only on CD4 positive T blasts", 1987, *Mol. Immunol.*, 12, 24, 1281-1290.

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

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