

# Monoclonal Antibody Anti-Rat CD5-FITC

PN IM3060 – Liquid 1 mL– 100 tests – Clone OX-19

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

## SPECIFICITY

The monoclonal antibody (mAb) OX-19 antibody recognizes rat CD5 cell surface antigen (1, 2), which is a surface glycoprotein of 69 kDa (3).

The mAb OX-19 binds virtually all rat thymocytes, T lymphocytes and a maximum of 2% B lymphocytes (2 - 5).

## REAGENT

Conjugated Monoclonal Antibody Anti-Rat CD5 -FITC  
PN IM3060 – Liquid 1 mL – 100 tests

**Clone** OX-19  
**Isotype** IgG1  
**Species** Mouse  
**Purification** Protein A affinity chromatography purified IgG from tissue culture supernatant

**Conjugation** Fluorescein isothiocyanate (FITC) is conjugated at 3 - 5 moles of FITC per mole of IgG.  
Excitation wavelength: 488 nm  
Maximum emission wavelength: 525 nm  
Main emission color: Green

## 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

No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 20 - 25 °C prior to use.

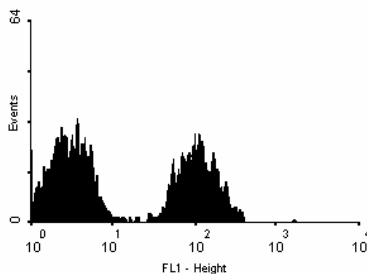
## PROCEDURE

Flow Cytometry: 10 µL is the usual amount of reagent required for 1 x 10<sup>6</sup> cells or 100 µL 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 rat peripheral blood lymphocytes.



## SELECTED RESEARCH REFERENCES

1. Hedlund, G., Brodin, T., Sjögren, H.O., "Selective induction of OX19+ (CD5+) or OX19- (CD5-) alloreactive cytolytic lymphocytes in the rat", 1987, Cell. Immunol., 105, 366-373.
2. Vermeer, L.A., De Boer, N.K., Bucci, C., Bos, N.A., Kroese, F.G.M., Alberti, S., "MRC OX19 recognises the rat CD5 surface glycoprotein, but does not provide evidence for a population of CD5 bright B cells", 1994, Eur. J. Immunol., 24, 585-592.
3. Dallman, M.J., Thomas, M.L., Green, J.R., "MRC OX-19: A monoclonal antibody that labels rat T lymphocytes and augments in vitro proliferative responses", 1984, Eur. J. Immunol., 14, 260-267.
4. Dallman, M.J., Mason, D.W., Webb, M., "The role of host and donor cells in the rejection of skin allografts by T cell deprived rats injected with syngeneic T cells", 1982, Eur. J. Immunol., 12, 511-518.
5. Windmill, K.F., Meade, B.J., Lee, V.M.K., "Effect of prepubertal gonadectomy and sex steroid treatment on the growth and lymphocyte populations of the rat thymus", 1993, Reprod. Fertil. Dev., 5, 73-81.

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