

PN IM3065 Monoclonal Antibody RAT CD8-FITC

Form	FITC	Clone	OX-8
Quantity	100 tests	Isotype	IgG1
Presentation	Liquid 1 mL	Species	mouse
Purity	Purified IgG		

For Research Use Only. Not For Use In Diagnostic Procedures.

SPECIFICITY

The OX-8 antibody recognizes rat CD8 antigen (1). In rat thymocytes, this antigen is revealed as two broad bands of mol wts 34 and 38 kDa (2).

OX-8 labels 90% of thymocytes, suppressor T cells, cytotoxic cells and a majority of natural killer cells (3-11).

APPLICATIONS

This antibody is designed for flow cytometry.

BUFFER

This antibody is supplied in phosphate-buffered saline (PBS) pH 7.4, containing 0.1% sodium azide (NaN₃) and 1% bovine serum albumin (BSA).

STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 - 8°C. Avoid repeated freezing and thawing. Minimize exposure to light and warmth.

CONJUGATION

Fluorescein isothiocyanate (FITC) is conjugated at 6.2 moles of FITC per mole of IgG.
 Excitation wavelength: 488 nm
 Maximum emission wavelength: 525 nm
 Main emission color: Green

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: Use 10 µL to label 10⁶ cells. It is recommended that the user titrates the antibody for use in her/his own system using appropriate negative / positive controls.

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.

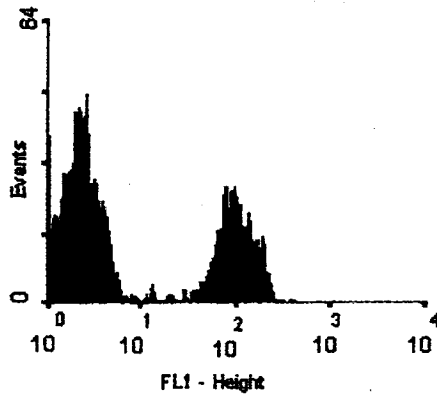
2. Never pipet by mouth.
3. Do not use antibody beyond the expiration date on the label.
4. Do not expose reagents to strong light during storage or incubation.
5. Avoid microbial contamination of reagents or incorrect results might occur.

CONJUGATES AVAILABLE

- CD8-PE (IM3066)
- CD8-BIOTIN (IM3063)

EXAMPLE DATA

The graph below shows representative results of staining obtained with this antibody on rat peripheral blood lymphocytes.



SELECTED RESEARCH REFERENCES

1. [4411] 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. [4378] Johnson, P., Gagnon, J., Barclay, A.N., Williams, A.F., "Purification, chain separation and sequence of the MRC OX-8 antigen, a marker of rat cytotoxic T-lymphocytes", 1985, EMBO J., 10, 4, 2539-2545.

3065EX220399 25/03/99 AC-99142

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3. [4364] Barclay, A.N., "The localization of populations of lymphocytes defined by monoclonal antibodies in rat lymphoid tissues", 1981, *Immunology*, 42, 593-600.
4. [4374] 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.
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6. [4377] Green, J.R., "Generation of cytotoxic T-cells in the rat mixed lymphocyte reaction is blocked by monoclonal antibody MRC OX-8", 1984, *Immunology*, 52, 253-260.
7. [4408] Thomas, M.L., Green, J.R., "Molecular nature of the W3/25 and MRC OX-8 marker antigens for rat T-lymphocytes: Comparisons with mouse and human antigens", 1983, *Eur. J. Immunol.*, 13, 855-858.
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9. [4414] 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.
10. [4455] 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.
11. [4531] Brideau, J.R., Carter, P.B., Mc Master, R., Mason, D.W., William, A.F., "Two subsets of rat T-lymphocytes defined with monoclonal antibodies", 1980, *Eur. J. Immunol.*, 10, 609-615.