PN IM3066 Monoclonal Antibody RAT CD8-PE

Form	PE	**Clone**	OX-8
Quantity	100 tests	**Isotype**	IgG1
Presentation	Freeze-dried	**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, the 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 (3-1

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 (NaN_3) 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. Do not freeze. Minimize exposure to light and warmth.

CONJUGATION
R-phycoerythrin (PE) conjugated antibody.
Excitation wavelength: 488 nm
Maximum emission wavelength: 575 nm
Main emission color: Orange-red

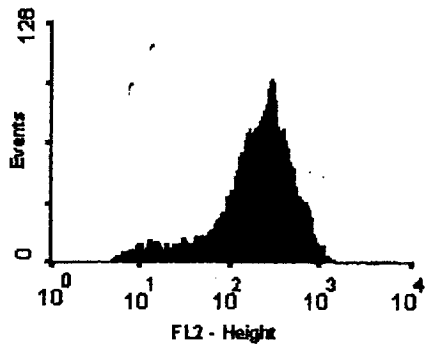
REAGENT PREPARATION
The monoclonal antibody is provided in freeze-dried form and must be reconstituted with 1 mL of distilled water. Bring reagent to 20 - 25°C prior to use.

PROCEDURE
Flow Cytometry: Use 10 µL to label 10^6 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-FITC (IM3065)
CD8-BIOTIN (IM3063)

EXAMPLE DATA
The graph below shows representative results of staining obtained with this antibody on rat thymocytes.



SELECTED RESEARCH REFERENCES
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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.

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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.
5. [4376] Cantrell, D.A., Robins, R.A., Brooks, C.G., Baldwin, R.W., "Phenotype of rat natural killer cells defined by monoclonal antibodies marking rat lymphocyte subsets", 1982, Immunology, 45, 97-103.
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.
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