

PN IM3311 Monoclonal Antibody **MOUSE CD4-FITC**

Form	FITC	Clone	YTS191.1
Quantity	100 tests	Isotype	IgG2b
Presentation	Liquid 1 mL	Species	Rat
Purity	Purified Ig		

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

SPECIFICITY

YTS191.1 recognises the murine CD4 cell surface antigen. This one is expressed on murine T cells (helper-inducer T lymphocytes) but not macrophages (1). CD4 (and CD8) may play a critical role in differentiation of T-cell precursors in the thymus (2). The antigen processing mechanisms used by T cells that express CD4 and lack CD8 (CD4⁺/CD8⁻) involves uptake of proteins through endocytosis by antigen presenting cells, antigen fragmentation within vesicles, association with class II MHC molecules and expression on the cell surface (3).

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. Minimize exposure to light and warmth.

CONJUGATION

Fluorescein isothiocyanate (FITC) is conjugated at 3-7 moles of FITC per mole of Ig.

Excitation wavelength: 488 nm

Maximum emission wavelength: 525 nm

Main emission color: Green

AGENT 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 or 100 µL of whole blood.

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.

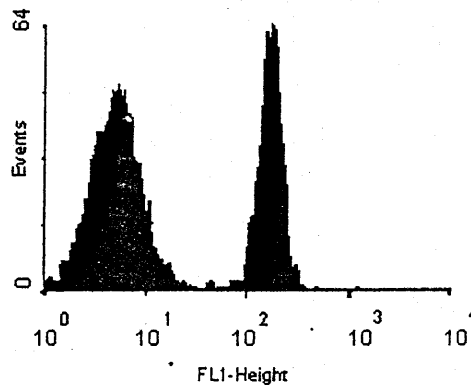
OTHER CONJUGATES AVAILABLE

CD4 (IM3310) / clone YTS191.1

CD4-PE (IM2773) / clone KT6

EXAMPLE DATA

The graph below shows representative results of staining obtained with this antibody on mouse spleen cells.



SELECTED RESEARCH REFERENCES

1. [925] Holmes, K.L., Morse III, H.C., "Murine hematopoietic cell surface antigen expression", 1988, Immunol. Today, 11, 9, 344-349.
2. [1633] Springer, T.A., "Adhesion receptors of the immune system", 1990, Nature, 346, 425-434.
3. [10] Paul, W.E., "The immune system: An introduction", 1989, Fundamental Immunology, 2nd edition, 3-1.

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