

Monoclonal Antibody to T Cell Receptor (TCR) V beta 12 - FITC

Alternate names:	TCR V beta-12, TCR Vb12
Catalog No.:	CL084F
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Host / Isotype:	Rat / IgG2a
Clone:	CTVB12b
Format:	State: Liquid, purified Label: FITC
Applications:	Flow cytometry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This monoclonal antibody reacts with TCR Vb12b bearing cells. Species: Mouse. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. Shelf life: one year from despatch
General Readings:	1. Tomonari K. Tcrb-V12-specific superantigens encoded by mouse mammary tumor proviruses. Immunogenetics. 1994;39(1):65-7. PubMed PMID: 7693584.
Protocols:	<u>FLOW CYTOMETRY ANALYSIS:</u>

Method:

1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte®-M cell separation medium.
2. Wash 2 times.
3. Resuspend the cells to a concentration of 2x10e7 cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain 1 x 10e6 cells, representing 1 test).
4. To each tube, add ~1.0 µg* of this Ab per 10e6 cells.
5. Vortex the tubes to ensure thorough mixing of antibody and cells.
6. Incubate the tubes for 30 minutes at 4°C. (It is recommended that the tubes are protected from light, since most fluorochromes are light sensitive.)
7. Wash 2 times at 4°C.
8. Resuspend the cell pellet in 50 µl ice cold media B.
9. Transfer to suitable tubes for flow cytometric analysis containing 15 µl of propidium

iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.

Media:

A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 µl of 2M sodium azide in 100 mls).

B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 µl of 2M sodium azide in 100 mls).

Results - Tissue Distribution by Flow Cytometry Analysis:

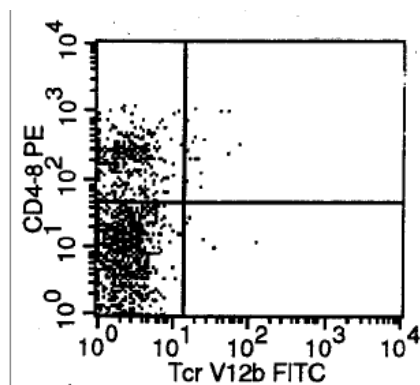
Mouse Strain: C3H.SW

Cell Concentration: 1x10⁶ cells per test

Antibody Concentration Used: 1.0 µg/10⁶ cells

Isotypic Control: FITC Rat IgG2a

Pictures:



Cell source: Spleen

Percentage of cells stained above control: 1.26%