

Monoclonal Antibody to T Cell Receptor (TCR) Vb 8.3 - PE

Alternate names:	TCR V beta-8.3, TCR Vb8.3
Catalog No.:	CL080R
Quantity:	50 µg
Concentration:	0.1 mg/ml
Host / Isotype:	Mouse / IgG2a
Clone:	KT-8C1
Format:	State: Liquid purified Buffer System: PBS, 0.09% NaN ₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. Label: PE
Applications:	Flow Cytometry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This monoclonal antibody detects Vb 8.3 bearing T cells. Species: Mouse. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
General Readings:	1. Tomonari, k., Immunogenetics (in press).
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 2x10⁷ cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain 1 x 10⁶ cells, representing 1 test).
4. To each tube, add ~1.0 µg* of this Ab per 10⁶ 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 fluoro-chromes 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 μ l of 2M sodium azide in 100 mls).

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

Results - Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: BALB/c

Cell Concentration: 1x10⁶ cells per tests

Antibody Concentration Used: 1.0 μ g/10⁶ cells

Isotypic Control: PE Mouse IgG2a

Pictures:

