CL082F
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Monoclonal Antibody to T Cell Receptor (TCR) Vb 10b - FITC

Alternate names: TCR V beta-10b, TCR Vb10b

Catalog No.: CL082F

Quantity: 0.1 mg

Concentration: 0.1 mg/ml

Host / Isotype: Rat / IgG2b

Clone: CTVB10b

Format:
State: Liquid, purified.
Buffer System: PBS, 0.09% NaN3 and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.
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 the TCR Vb10b bearing T cells. The TCR Vb10b is deleted in mouse strains expressing Vba haplotype.
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 protected from light.
Shelf life: one year from despatch.

General References:
1. Tomonari, K., Hederer, R. and Hengartner, H. 1992 Positive selection of TCRb-V10b+ T cells. Immunogenetics 35:9-15.

Protocols:

FLOW CYTOMETRY ANALYSIS:

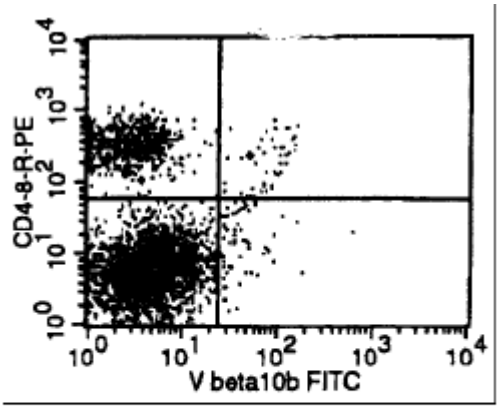
Method:
1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte®-M cell separation medium.
2. Wash 2 times.
3. Resuspend the cells to a concentration of 2x10e7 cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will 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 flurochromes 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: 1x10e6 cells per tests
Antibody Concentration Used: 1.0 µg/10e6 cells
Isotypic Control: FITC Rat IgG2b

Pictures:



Cell source: Spleen
Percentage of cells above control: 1.4%