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CI 084P

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

Alternate names: TCR V beta-12, TCR Vb12

Catalog No.:

Quantity:

Concentration:

Host / Isotype:

Recommended

CL084P

0.2 mg

0.2 mg/ml

Rat / IgG2a

SM15P, SM15PX

Isotype Controls:

Format:

Clone: CTVB12b

State: Liquid purified

Buffer System: PBS and 0.09% NaN3

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.

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing. 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: 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 (CL5030).

2. Wash 2 times.

3. Resuspend the cells to a concentration of 2x107 cells/ml in media A. Add 50 μ l of this suspension to each tube (each tube will then contain 1x106 cells, representing 1 test).

4. To each tube, add \sim 1.0 μ g* of CL7212AP.

5. Vortex the tubes to ensure thorough mixing of antibody and cells.

6. Incubate the tubes for 30 minutes at 4°C.

7. Wash 2 times at 4°C.

8. Add 100 μl of secondary antibody CLCC40001 (FITC Goat anti-rat IgG (H+L)) at 1:500

dilution.

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- 9. Incubate the tubes at 4°C for 30-60 minutes. (It is recommended that the tubes are protected from light since most fluorochromes are light sensitive).
- 10. Wash 2 times at 4°C in media B.
- 11. Resuspend the cell pellet in 50 µl ice cold media B.
- 12. Transfer to suitable tubes for flow cytometric analysis containing 15 μ l 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).

