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OriGene EU

CL077P

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Monoclonal Antibody to T Cell Receptor (TCR) V beta 4 -**Purified**

TCR V beta-4, TCR Vb4 Alternate names:

Catalog No.: CL077P **Quantity:** 0.2 mg **Concentration:** 0.2 mg/ml **Host / Isotype:** Rat / IgG2a Recommended SM15P, SM15PX

Isotype Controls: Clone: CTVB4

Format: State: Liquid purified

Buffer System: PBS and contains 0.09% sodium azide (NaN3) as a preservative.

Applications: Flow cytometry.

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

This monoclonal antibody reacts with TCR Vb4 bearing T cells. TCR Vb4 is expressed in **Specificity:**

most known mouse strains.

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. Storage:

> Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: 1. Tomonari, K., lovering, E. and Spencer, S. 1990 Correlation between the Vb4+ CD8+ T cell

population and the H-2d haplotype. Immunogenetics 31:333-339.

2. Padula, S.J., Lingenheld, E.G., Stabach, P.R., Chou, C.J., Kono, D.H. and Clark, R.B. 1991 Identificaion of encephalitogenic Vb4-bearing T cells in SJL mice-further evidence for the V

region disease hypothesis? J. Immunol. 146:879-883.

FLOW CYTOMETRY ANALYSIS: Protocols:

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 μ l of this suspension to each tube (each tube will then contain 1x10e6 cells, representing 1 test).

4. To each tube, add ~1.0 µg* of this Ab.

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

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com



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- 6. Incubate the tubes for 30 minutes at 4°C.
- 7. Wash 2 times at 4°C.
- 8. Add 100 μl of secondary antibody (FITC Goat anti-rat IgG (H+L)) at 1:500 dilution.
- 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).

