

Product datasheet for CL075BX

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

T Cell Receptor (TCR) alpha/beta Hamster Monoclonal Antibody [Clone ID: H57-597]

Product data:

Product Type: Primary Antibodies

Clone Name: H57-597

Applications: FC

Recommended Dilution: Flow cytometry.

Immunoprecipitation.

This clone has also been reported to work with frozen sections and Western Blotting.

Reactivity: Mouse Hamster

Isotype: lgG

Clonality: Monoclonal

Immunogen: Affinity Purified D0-11.10 TCR

Donor: Armenian Hamster

Fusion Partner: Murine myeloma variant P3X63Ag.653

Specificity: This mAb reacts with the surface of all ab TCR bearing cells and does not react with receptors

on gd TCR positive T cells. When used in an immobilized form, this antibody was able to activate all ab TCR bearing T cell hybridomas tested to produce IL-2. Use of this antibody in conjunction with an anti-CD3e mAb allows for accurate measurements of the mutually

exclusive sub-populations of ab TCR and gd TCR bearing T cells.

Formulation: PBS,0.02% NaN3 and EIA grade BSA as a stabilizing protein to bring total protein

concentration to 4-5 mg/ml.

Label: Biotin

State: Liquid purified Ig

Concentration: lot specific

Purification: Protein G Chromatography

Conjugation: Biotin

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.

Stability: Shelf life: one year from despatch.





Synonyms:

TCRA, TCRB, T-Cell Receptor alpha, T-Cell Receptor beta, T-Cell Receptor alpha beta

Note:

Protocol: 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 $50 \mu l$ of this suspension to each tube (each tube will then contain $1 \times 10e6$ 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.
- 7. Wash 2 times at 4°C.
- 8. Add 100 μ l of secondary antibody (Streptavidin-FITC) at a 1:500 dilution.
- 9. Incubate tubes at 4°C for 30 60 minutes (It is recommended that tubes are protected from light since most fluorochromes are light sensitive).
- 10. Wash 2 times at 4°C.
- 11. Resuspend the cell pellet in 50 μ l 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).

Results - Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: BALB/c

<u>Cell Concentration</u>: 1x10e6 cells per tests <u>Antibody Concentration Used</u>: 1.0 µg/10e6 cells

<u>Isotypic Control</u>: Biotin Hamster IgG

Cell Source Percentage of cells stained above control:

Thymus: 62.6% see **FIGURE 1**

Splenic T Cells: 76.2%

Strain Distribution by Flow Cytometry Analysis:

<u>Cell Concentration</u>: 1x10e6 cells per tests <u>Antibody Concentration Used</u>: 1.0 μg/106 cells Strains Tested: BALB/c, C57BL/6, CBA/J, C3H/He, AKR

Positive: BALB/c, C57BL/6, CBA/J, C3H/He, AKR

Negative: none



Product images:

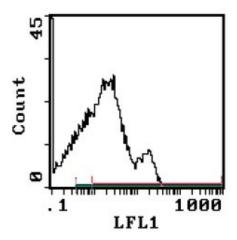


Figure 1