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Product datasheet for SM322B

T Cell Receptor (TCR) gamma/delta Mouse Monoclonal Antibody [Clone ID: V65]

Product data:

Product Type:	Primary Antibodies
Clone Name:	V65
Applications:	FC, IHC
Recommended Dilution:	Flow cytometry. Immunohistochemistry on frozen sections.
Reactivity:	Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Rat T Blasts. Donor: BALB/c spleen. Fusion Partner: X63-Ag 8.653.
Specificity:	This monoclonal antibody detects a T cell-specific heterodimeric 48 and 50 kD cell surface protein that is expressed on greater than 90% of CD3+ abTCR- rat peripheral T lymphocytes, and identifies a dense network of dendritic cells in the epidermis as g/d T cells. Immobilized this antibody induces a strong proliferative response in gd T cell cultures supplemented with either IL-2 or IL-4.
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
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:	TCRG, TCRD, T-Cell Receptor gamma, T-Cell Receptor delta, T-Cell Receptor gamma delta

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Note:

Protocol: **FLOW CYTOMETRY ANALYSIS:**

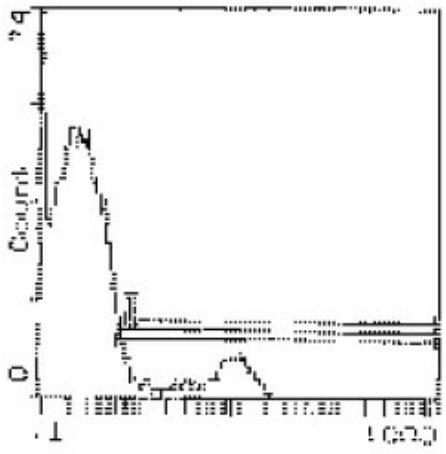
Method:
1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte®-Rat cell separation medium.
2. Wash 2 times.
3. Resuspend the cells to a concentration of 2x10e7 cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain 1 x 10e6 cells, representing 1 test).
4. To each tube, add 0.1-0.2 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 µl of secondary antibody (Streptavidin-PE) at a 1:20 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 µl ice cold media B.
12. 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:
Rat Strain: Fischer
Cell Concentration: 1x10e6 cells per test
Antibody Concentration Used: 0.2 µg/10e6 cells
Isotypic Control: Biotin Mouse IgG1

Cell Source Percentage of cells stained above control:
Thymus: 3.6%
Splenic T Cells: 5.3%

Product images:



LFL2 - Cell Source: Splenic T Cells - Percentage of cells stained above control: 5.3%