CL075RX



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	alpha/beta - PE	
Alternate names:	TCRA, TCRB, T-Cell Receptor alpha, T-Cell Receptor beta, T-Cell Receptor alpha beta	
Catalog No.:	CL075RX	
Quantity:	0.3 mg	
Concentration:	0.1 mg/ml	
Host / Isotype:	Hamster / IgG	
Clone:	H57-597	
Immunogen:	Affinity-purified DO-11.10 TCR.	
Format:	 State: Liquid purified IgG fraction. Purification: Protein G Chromatography. Buffer System: PBS with 0.02% Sodium azide as preservative and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. Label: R-Phycoerythrin (PE). 	
Applications:	Use of this antibody in conjunction with an anti-CD3e monoclonal antibody (CL001F or CL001FX) allows for accurate measurements of the mutually exclusive sub-populations of alpha/beta TCR and gamma/theta TCR bearing T cells. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.	
Specificity:	Mouse alpha/beta T Cell Receptor. This monoclonal antibody reacts with the surface of all alpha/beta TCR bearing cells and does not react with receptors on gamma/theta TCR positive T cells. This monoclonal antibody when used in an immobilized form was able to activate all alpha/beta TCR bearing T cell hybridomas tested to produce IL-2 (1).	
Storage:	Store the antibody at 2-8°C. DO NOT FREEZE! Avoid prolonged exposure to light. Shelf life: one year from despatch.	
General References:	 Kubo, R.T. Born, W., Kappler, J.W., Marrack, P. and M. Pigeon. 1989. Characterization of a Monoclonal Antibody Which Detects All Murine ab T Cell Receptors. J. of Immunol. 142:2736-2742. Goodman, T., Lefrancois, L. 1989. Intraepithelial Lymphocytes. J. of Exp. Med. 170: 1569-1581. Gross, J.A., E. Callas and J.P. Allison. 1992. Identification and Distribution of the Costimulatory Receptor CD28 in the Mouse. J. of Immunol. 149: 380-388. Palathumpat, V. et al. 1992. Treatment of BCL1 Leukemia by Transplantation of Low 	
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.		

Antibody Hotline - Technical Questions - Antibody Location Service Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com



CL075RX: Monoclonal Antibody to T Cell Receptor (TCR) alpha/beta - PE

Density Fractions of Allogeneic Bone Marrow and Spleen Cells. J. of Immunol. 148: 3319-3326.

5. Paliwal, V. et al. 1997. Recombinant Soluble ab TCR Receptors Protect T Cells from Immune Suppression. J. of Immunol. 159: 1718-1727.

Protocols: FLOW CYTOMETRY ANALYSIS:

Method:

1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with IQ-Lyse (IQP-199) or similar 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 1.0-0.5 μ g* of CL075R or CL075RX 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 fluorochromes are light sensitive.)

7. Wash 2 times at 4°C.

8. Resuspend the cell pellet in 50 μ l ice cold media B.

9. 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:

Mouse Strain: BALB/C Cell Concentration: 1x10e6 cells per test. Antibody Concentration Used: 1.0 µg/10e6 cells. Isotypic Control: PE Hamster IgG.

Cell Source: A/ Splenic T cells B/ Thymus Percentage of Cells Stained Above Control: A /89.3 B /75.2

N.B. Appropriate control samples should always be included in any labelling studies.

*For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.

STRAIN DISTRIBUTION:

Antibody Concentration: 1.0 ug/10e6 cells Strains Tested: C57BL/6, CBA/J, AKR, BALB/c, C3H/He Postive: CBA/J, BALB/c, C3H/He, AKR, C57BL/6 Negative: None.