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Product datasheet for CL075RX

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:	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.
Reactivity:	Mouse
Host:	Hamster
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Affinity-purified DO-11.10 TCR.
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).
Formulation:	PBS with 0.02% Sodium Szide as preservative and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. Label: PE State: Liquid purified IgG fraction. Label: R-Phycoerythrin
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	PE
Storage:	Store undiluted at 2-8°C. **DO NOT FREEZE!** Avoid prolonged exposure to light.
Stability:	Shelf life: one year from despatch.

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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 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 µg* 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 µl ice cold media B.
9. 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:
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

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Postive: CBA/J, BALB/c, C3H/He, AKR, C57BL/6
Negative: None.

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