EuroBioSciences

Data Sheet

anti-mouse a/ß TCR PE-conjugated

Cat-No.: M22166P **1 ml**

Clone: H57-597

Specificity:
Mouse alpha/beta TCR. The alpha/beta T cell receptor monoclonal antibody reacts with the surface of all alpha/beta TCR bearing cells and does not react with receptors on gamma/delta 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. Use of this antibody in conjunction with an anti-CD3e monoclonal antibody allows for accurate measurements of the mutually exclusive sub-populations of alpha/beta TCR and gamma/delta TCR bearing T cells. This clone has been reported to work with frozen sections. On long term bone marrow cultures (3). It also blocks the adhesive interactions of B cell hybridomas to a cloned stromal line or to hyaluronate coated dishes (4).

Isotype subclass: Hamster IgG

Form: Purified from ascitic fluid via Protein G Chromatography, PE conjugated

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 1 % BSA and 0.09 % sodium azide (pH 7.4).

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 4 °C. Do not freeze. Avoid prolonged exposure to light.

Application: Flow Cytometry

References:
1. 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.
2. Goodman, T., Lefrancois, L. 1989. Intraepithelial Lymphocytes. J. of Exp. Med. 170: 1569-1581.
3. 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.
4. Palathumpat, V. et al. 1992. Treatment of BCL1 Leukemia by Transplantation of Low 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.
6. Skarstein, K. et al. 1994. Oligoclonality of T cells in salivary glands of autoimmune MRL/lpr mice. Immunology. 81:497-501.

Warning:
Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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