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30-1068PE-Cy7: Anti-TCR gamma/delta Monoclonal Antibody (Clone:B1)- PE-Cy7 Conjugated

Clonality : Monoclonal
Clone Name : B1
Application : FACS
Reactivity : Human,Non-Human Primates
Conjugate : PE/CY7
Format : Purified
Isotype : Mouse IgG1

Description

The antigen-specific T cell receptor (TCR) is composed of either alpha and beta subunit, or gamma and delta subunit. Majority of T cells present in the blood, lymph and secondary lymphoid organs express TCR alpha/beta heterodimers, whereas the T cells expressing TCR gamma/delta heterodimers are localized mainly in epithelial tissues and at the sites of infection. The subunits of TCR heterodimers are covalently bonded and in the endoplasmic reticulum they associate with CD3 subunits to form functional TCR-CD3 complex. Lack of expression of any of the chains is sufficient to stop cell surface expression.

Product Info

Amount : 100 tests
Purification : Purified by protein-A affinity chromatography
Content : 400 ul in PBS, 0.05 % Azide
Storage condition : Store at 2-8°C. Do not freeze.

Application Note

Flow Cytometry: The reagent is designed for analysis of blood cells using 4ul reagents/100 ul of whole blood or 10^6 cells in a suspension. Exitation Blue (488nm)

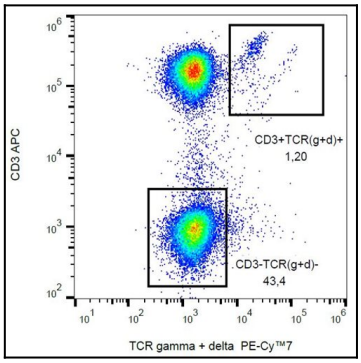

Figure 1: Flow cytometry analysis (surface staining) of human peripheral blood lymphocytes with anti-human TCR gamma/delta (B1) PE-Cy™7.

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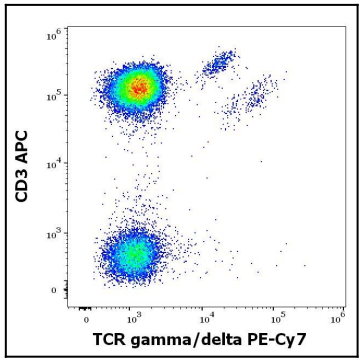

Figure 2: Flow cytometry multicolor surface staining pattern of human lymphocytes stained using anti-human CD3 (UCHT1) APC antibody (10 µl reagent / 100 µl of peripheral whole blood) and anti-human TCR gamma/delta (B1) PE-Cy7 antibody (4 µl reagent / 100 µl of peripheral whole blood).

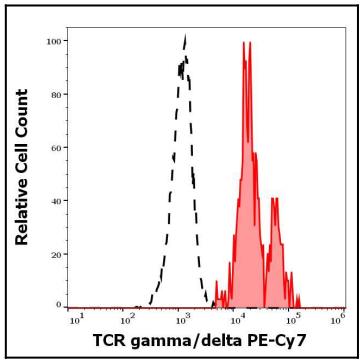

Figure 3: Separation of human CD3 positive TCR gamma/delta positive lymphocytes (red-filled) from CD3 negative TCR gamma/delta negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human TCR gamma/delta (B1) PE-Cy7 antibody (4 µl reagent / 100 µl of peripheral whole blood).