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30-2695: Anti-Hu TCR Vdelta2 PE

Clonality :	Monoclonal
Clone Name :	B6
Application :	FACS
Reactivity :	Human
Conjugate :	PE
Isotype :	Mouse IgG1 kappa
Immunogen Information :	human recombinant TCR Vdelta2

Description

The mouse monoclonal antibody B6 recognizes an extracellular epitope of human TCR Vdelta2, which is expressed on the majority of gamma/delta T cells. TCR Vdelta2 is a variant of TCR delta chain, that is present on a major subset of human gamma/delta T cells. TCR Vgamma9/Vdelta2 (or Vgamma2/Vdelta2) T cells are able to recognize and kill various tumor cells, as this receptor heterodimer binds to certain phosphoantigens, expressed by tumors. They can recognize these antigens in an MHC-unrestricted manner. Similarly to NK cells, Vdelta2 T cells express MHC I receptors and killer Ig-like receptors, that are involved in tumor recognition and cytolysis. The potently cytotoxic subset of them is identified by cell surface expression of polysialyated CD56.

Product Info

Amount :	100 Tests
Purification :	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

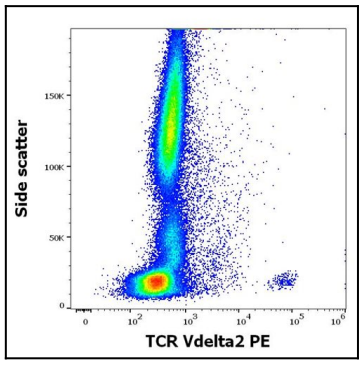

Figure-1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human TCR Vdelta2 (B6) PE antibody (10 Î¼l reagent / 100 Î¼l of peripheral whole blood).

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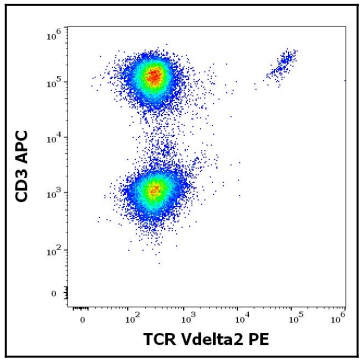

Figure-2: Flow cytometry multicolor surface staining of human lymphocytes stained using anti-human TCR Vdelta2 (B6) PE antibody (10 Î¼l reagent / 100 Î¼l of peripheral whole blood) and anti-human CD3 (UCHT1) APC antibody (10 Î¼l reagent / 100 Î¼l of peripheral whole blood).

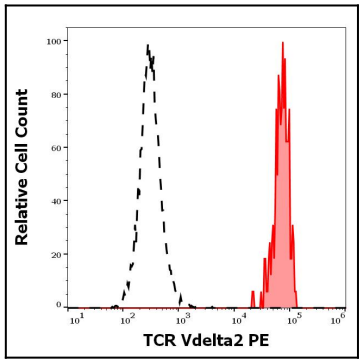

Figure-3:Separation of human TCR Vdelta2 positive lymphocytes (red-filled) from TCR Vdelta2 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human TCR Vdelta2 (B6) PE antibody (10 Î¼l reagent / 100 Î¼l of peripheral whole blood).

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