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30-2711-AC: Anti-Hu TCR Vgamma9 APC

Clonality :	Monoclonal
Clone Name :	B3
Application :	FACS
Reactivity :	Human,Non-Human Primates
Conjugate :	APC
Gene ID :	35
Alternative Name :	TCRVG9
Isotype :	Mouse IgG1
Immunogen Information :	human T cells

Description

TCR Vgamma9 is a variant of TCR gamma chain, that is present on a subset of human gamma/delta T cells. TCR Vgamma9/Vdelta2 T cells are able to recognize and kill various tumor cells, as this receptor heterodimer binds to certain phosphoantigens, expressed by tumors.
Specificity :The mouse monoclonal antibody B3 recognizes an extracellular epitope of human TCR Vgamma9, a variant of TCR gamma chain, which is expressed on a gamma/delta T cell subpopulation with cytolytic activity against various tumor cells.

Product Info

Amount :	100 tests (T100)
Purification :	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Storage Buffer: 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.

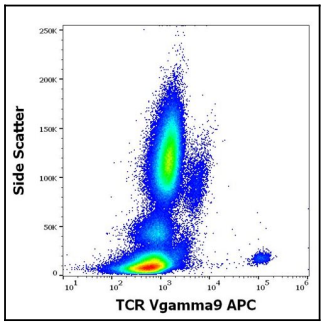


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human TCR Vgamma9 (B3) APC antibody (concentration in sample 1.67 µg/ml).

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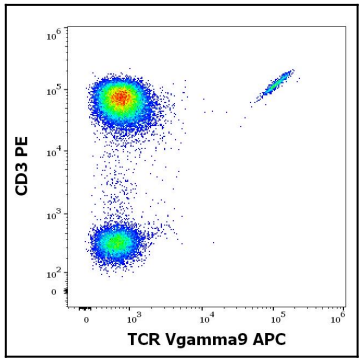


Figure 2: Flow cytometry multicolor surface staining pattern of human lymphocytes stained using anti-human CD3 (UCHT1) PE antibody (20 µl reagent / 100 µl of peripheral whole blood) and anti-human TCR Vgamma9 (B3) APC antibody (concentration in sample 1.67 µg/ml).

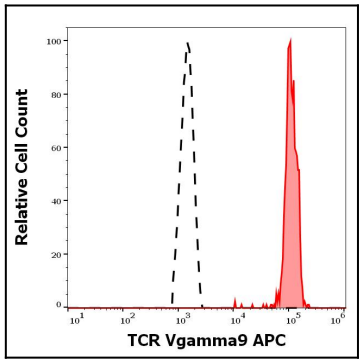


Figure 3: Separation of human CD3 positive TCR Vgamma9 positive T cells (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human TCR Vgamma9 (B3) APC antibody (concentration in sample 1.67 µg/ml).

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