

## 30-2695: Anti-Hu TCR Vdelta2 PE

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	B6
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Conjugate :</b>	PE
<b>Isotype :</b>	Mouse IgG1 kappa
<b>Immunogen Information :</b>	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 potentially cytotoxic subset of them is identified by cell surface expression of polysialyated CD56.

### Product Info

<b>Amount :</b>	100 Tests
<b>Purification :</b>	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
<b>Content :</b>	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
<b>Storage condition :</b>	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<sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

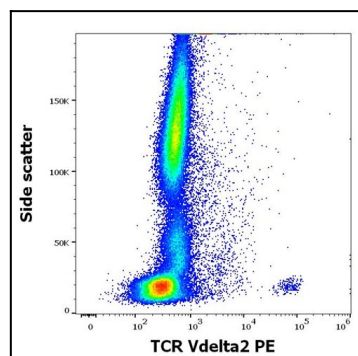


Figure-1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human TCR Vdelta2 (B6) PE antibody (10 µl reagent / 100 µl of peripheral whole blood).

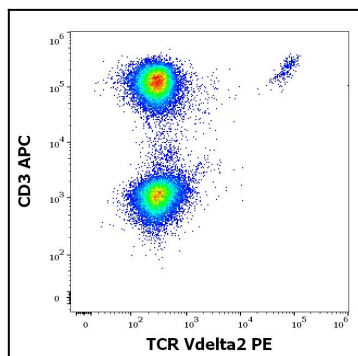


Figure-2: Flow cytometry multicolor surface staining of human lymphocytes stained using anti-human TCR Vdelta2 (B6) PE antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood) and anti-human CD3 (UCHT1) APC antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood).

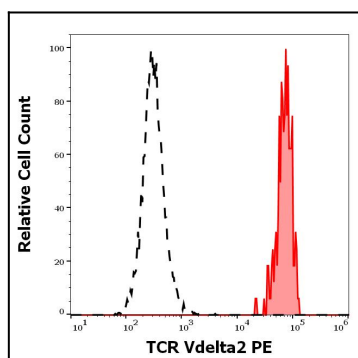


Figure-3: Separation of human TCR Vdelta2 positive lymphocytes (red-filled) from TCR Vdelta2 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human TCR Vdelta2 (B6) PE antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral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