

## 30-1068-AC: Anti-TCR gamma/delta Monoclonal Antibody (Clone:B1) APC Conjugated

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	B1
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human,Non-Human Primates
<b>Conjugate :</b>	APC
<b>Format :</b>	Purified
<b>Alternative Name :</b>	TCRG/D
<b>Isotype :</b>	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

<b>Amount :</b>	100 tests
<b>Purification :</b>	Purified by protein-A affinity chromatography in PBS, azide
<b>Storage condition :</b>	Store at 2-8°C. Do not freeze.

### Application Note

Flow Cytometry: The reagent is designed for analysis of blood cells using 10ul reagents/100 ul of whole blood or  $10^6$  cells in a suspension.

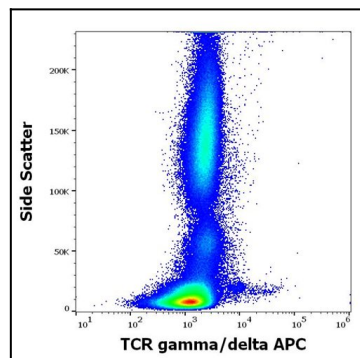


Fig. 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human TCR gamma/delta (B1) APC antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood).

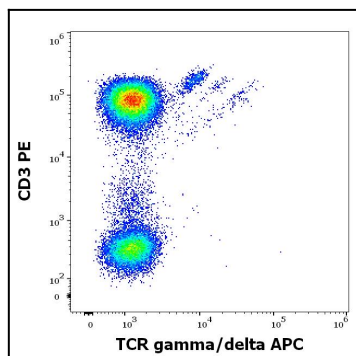


Fig. 2: Flow cytometry multicolor surface staining pattern of human peripheral blood mononuclear cells stained using anti-human CD3 (UCHT1) PE antibody (20  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood) and anti-human TCR gamma/delta (B1) APC antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood).

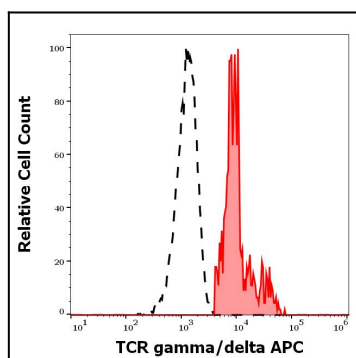


Fig. 3: Separation of human CD3 positive TCR gamma/delta positive T cells (red-filled) from CD3 negative TCR gamma/delta negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human TCR gamma/delta (B1) APC antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood).