

## PE/Cyanine 5.5 Anti-Human TCR Vβ1 Antibody[BL37.2]

Catalog Number: AN003711

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### Description

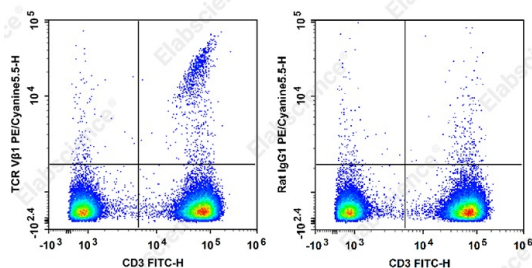
<b>Reactivity</b>	Human
<b>Host</b>	Rat
<b>Isotype</b>	Rat IgG1, κ
<b>Clone No.</b>	BL37.2
<b>Isotype Control</b>	PE/Cyanine5.5 Rat IgG1, κ Isotype Control[HRPN] [Product E-AB-F09822I]
<b>Conjugation</b>	PE/Cyanine 5.5
<b>Conjugation Information</b>	PE/Cyanine 5.5 is designed to be excited by the Blue (488 nm), Green (532 nm) and yellow-green (561 nm) lasers and detected using an optical filter centered near 690 nm (e.g., a 690/50 nm bandpass filter).
<b>Storage Buffer</b>	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

### Applications

### Recommended usage

**FCM**  
Each lot of this antibody is quality control tested by flow cytometric analysis. **The amount of the reagent is suggested to be used 5 μL of antibody per test (million cells in 100 μL staining volume or per 100 μL of whole blood).** Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

### Data



Staining of normal human peripheral blood cells with FITC Anti-Human CD3 Antibody[OKT-3] and PE/Cyanine 5.5 Anti-Human TCR Vβ1 Antibody[BL37.2] (left) or PE/Cyanine 5.5 Rat IgG1, κ Isotype Control (right). Cells in the lymphocytes gate were used for analysis.

### Preparation & Storage

<b>Storage</b>	Keep as concentrated solution. This product can be stored at 2-8°C for 24 months. Please protected from prolonged exposure to light and do not freeze.
<b>Shipping</b>	Ice bag

### Antigen Information

<b>Alternate Names</b>	TRBV;TRBV9
<b>Uniprot ID</b>	A0A0B4J1U6

### For Research Use Only

## Background

TCR V $\beta$ 1 is a variant of the TCR V $\beta$  chain that is expressed by a subset of  $\alpha\beta$ + T cells. Aberrant expression of TCR V $\beta$  chains has been associated with infection and cancer. TCR V $\beta$ 1 is reported to be preferably used by autoreactive T cells in a model of autoimmune thyroiditis and diabetes. Skewing of TCR V $\beta$  repertoire to V $\beta$ 1 and V $\beta$ 9 has also been reported in patients with multiple sclerosis, reactive arthritis, and Kawasaki disease.