

## Technical Data Sheet

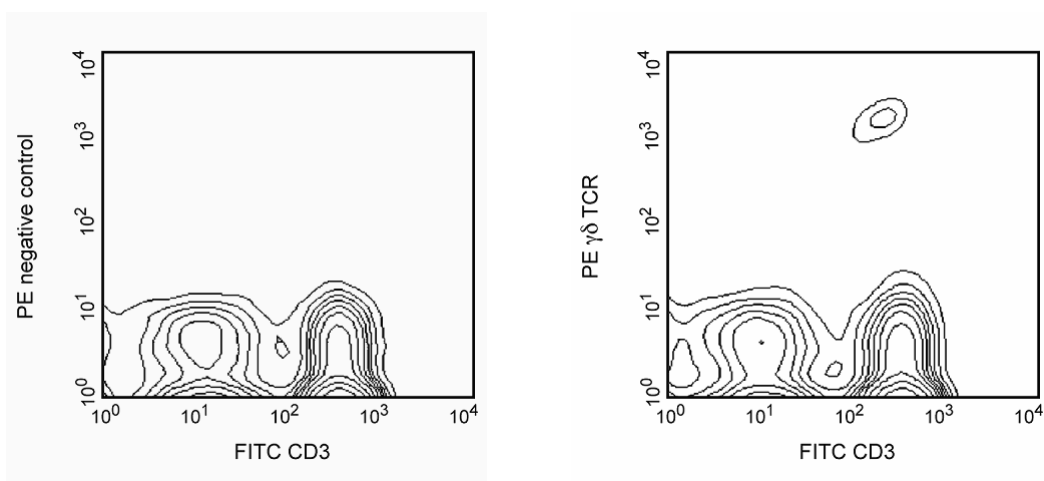
PE Mouse Anti-Rat  $\gamma\delta$  T-Cell Receptor

## Product Information

<b>Material Number:</b>	551802
<b>Size:</b>	0.1 mg
<b>Concentration:</b>	0.2 mg/ml
<b>Clone:</b>	V65
<b>Immunogen:</b>	Rat CD3+ $\alpha\beta$ TCR- T-cell hybridoma III.89.1.4
<b>Isotype:</b>	Mouse (BALB/c) IgG1, $\kappa$
<b>Reactivity:</b>	QC Testing: Rat
<b>Storage Buffer:</b>	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

## Description

The V65 antibody reacts with the  $\gamma\delta$  T-cell Receptor (TCR) found on CD3+  $\alpha\beta$  TCR-peripheral T lymphocytes, on a small subset of intestinal intraepithelial lymphocytes, and on dendritic epidermal T cells. Cross-linked V65 mAb induces cytokine-dependent T-cell mitogenesis *in vitro*, and *in vivo* treatment can significantly deplete peripheral  $\gamma\delta$  TCR-expressing T cells. A suspension of rat CD3+  $\alpha\beta$  TCR-T-cell hybridoma III.89.1.4 was used as the source of the immunogen.



**Two-color analysis of the expression of  $\gamma\delta$  TCR on peripheral lymphocytes.** Lewis lymph node cells were incubated simultaneously with PE-conjugated mAb V65 (right panel) and FITC-conjugated anti-rat CD3 mAb G4.18 (Cat. No. 559975/554832). Flow cytometry was performed on a BD FACScan™ flow cytometry system.

## Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

## Application Notes

## Application

Flow cytometry

Routinely Tested

## Recommended Assay Procedure:

For flow cytometry of cell suspensions from peripheral lymphoid tissues, it is recommended that multicolor staining be performed on to distinguish T lymphocytes from non-T cells.

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## Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
559975	FITC Mouse Anti-Rat CD3	0.1 mg	G4.18
550617	PE Mouse IgG1, $\kappa$ Isotype Control	0.1 mg	MOPC-31C

## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharmlngen/protocols](http://www.bdbiosciences.com/pharmlngen/protocols) for technical protocols.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at [www.bdbiosciences.com/pharmlngen/colors](http://www.bdbiosciences.com/pharmlngen/colors).
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

## References

Kuhnlein P, Park JH, Herrmann T, Elbe A, Hunig T. Identification and characterization of rat gamma/delta T lymphocytes in peripheral lymphoid organs, small intestine, and skin with a monoclonal antibody to a constant determinant of the gamma/delta T cell receptor. *J Immunol.* 1994; 153(3):979-986.(Immunogen)  
Pelegri C, Kuhnlein P, Buchner E, et al. Depletion of gamma/delta T cells does not prevent or ameliorate, but rather aggravates, rat adjuvant arthritis. *Arthritis Rheum.* 1996; 39(2):204-215.(Biology)