Technical Data Sheet

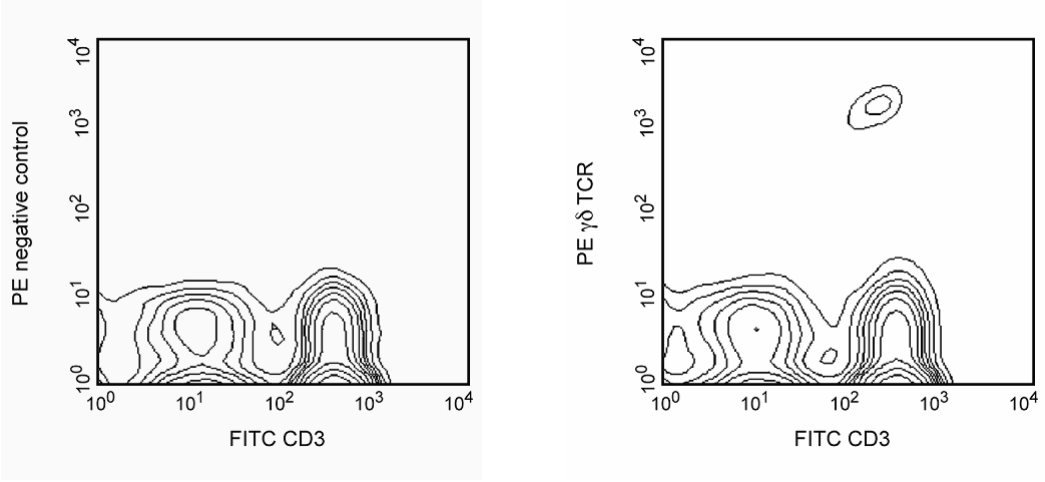
PE Mouse Anti-Rat γδ T-Cell Receptor

Product Information

Material Number:	**551802**
Size:	0.1 mg
Concentration:	0.2 mg/ml
Clone:	V65
Immunogen:	Rat CD3+ αβ TCR- T-cell hybridoma III.89.1.4
Isotype:	Mouse (BALB/c) IgG1, κ
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The V65 antibody reacts with the γδ T-cell Receptor (TCR) found on CD3+ αβ 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 γδ TCR-expressing T cells. A suspension of rat CD3+ αβ TCR-T-cell hybridoma III.89.1.4 was used as the source of the immunogen.



Two-color analysis of the expression of γδ 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

Catalog Number	Name	Size	Clone
559975	FITC Mouse Anti-Rat CD3	0.1 mg	G4.18
550617	PE Mouse IgG1, κ 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/pharmingen/protocols for technical protocols.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/pharmingen/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)