



1P-654-C100

Monoclonal Antibody to TCR gamma/delta (rat) Phycoerythrin (PE) conjugated (0.1 mg)

Clone:	V65
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody V65 recognizes TCR gamma/delta, the subtype of T cell receptor expressed mainly in epithelial tissues and at the sites of infection.
Regulatory Status:	RUO
Immunogen:	TCR alpha/beta-negative CD3-positive rat T cell hybridoma III.89.1.4 line
Species Reactivity:	Rat
Preparation:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Concentration:	0.5 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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.

For laboratory research only, not for drug, diagnostic or other use.

**Antibodies****References:**

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*Tam FW, Smith J, Morel D, Karkar AM, Thompson EM, Cook HT, Pusey CD: Development of scarring and renal failure in a rat model of crescentic glomerulonephritis. *Nephrol Dial Transplant.* 1999 Jul;14(7):1658-66.

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*De Bernardis F, Lucciarini R, Boccanera M, Amantini C, Arancia S, Morrone S, Mosca M, Cassone A, Santoni G: Phenotypic and functional characterization of vaginal dendritic cells in a rat model of *Candida albicans* vaginitis. *Infect Immun.* 2006 Jul;74(7):4282-94.

*And many other.

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