



1P-147-T100

Monoclonal Antibody to TCR gamma/delta Phycoerythrin (PE) conjugated (100 tests)

Clone:	B1
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody B1 (also known as B1.1) recognizes TCR gamma/delta, the subtype of T cell receptor expressed mainly in epithelial tissues and at the sites of infection.
Regulatory Status:	RUO
Species Reactivity:	Human, Non-Human Primates
Preparation:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
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 of human blood cells using 5 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.5 ml) is sufficient for 100 tests.
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:**
- *Rodríguez-Gago M, de Heredia A, Ramírez P, Parrilla P, Aparicio P, Yélamos J: Human anti-porcine gammadelta T-cell xenoreactivity is inhibited by human FasL expression on porcine endothelial cells. *Transplantation*. 2001 Aug 15;72(3):503-9.
 - *Lehmann FS, Terracciano L, Carena I, Baeriswyl C, Drewe J, Tornillo L, De Libero G, Beglinger C: In situ correlation of cytokine secretion and apoptosis in *Helicobacter pylori*-associated gastritis. *Am J Physiol Gastrointest Liver Physiol*. 2002 Aug;283(2):G481-8.
 - *Correia DV, Fogli M, Hudspeth K, da Silva MG, Mavilio D, Silva-Santos B: Differentiation of human peripheral blood V α 1+ T cells expressing the natural cytotoxicity receptor NKp30 for recognition of lymphoid leukemia cells. *Blood*. 2011 Jul 28;118(4):992-1001.
 - *Bordignon M, Belloni Fortina A, Pigozzi B, Alaibac M: $\gamma\delta$ T cells as potential contributors to the progression of parapsoriasis to mycosis fungoides. *Mol Med Rep*. 2008 Jul-Aug;1(4):485-8.
 - *Pöllinger B, Junt T, Metzler B, Walker UA, Tyndall A, Allard C, Bay S, Keller R, Raulf F, Di Padova F, O'Reilly T, Horwood NJ, Patel DD, Littlewood-Evans A: Th17 cells, not IL-17+ $\gamma\delta$ T cells, drive arthritic bone destruction in mice and humans.

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