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	Monoclonal Antibody to T Cell Receptor (TCR) gamma/delta - PE
Alternate names: Catalog No.:	T-Cell Receptor delta, T-Cell Receptor gamma, T-Cell Receptor gamma delta, TCRD, TCRG AM08059RP-N
Quantity:	0.2 mg
Concentration:	0.1 mg/ml
Background:	T cell receptors (TCR) recognize foreign antigens which have been processed as small peptides and bound to major histocompatibility complex (MHC) molecules at the surface of antigen presenting cells (APC). Each T cell receptor is a dimer consisting of one alpha and one beta chain or one delta and one gamma chain. This region represents the germline organization of the T cell receptor beta locus. The beta locus includes V (variable), J (joining), diversity (D), and C (constant) segments. During T cell development, the beta chain is synthesized by a recombination event at the DNA level joining a D segment with a J segment; a V segment is then joined to the D-J gene. The C segment is later joined by splicing at the RNA level. The TCR gamma/delta heterodimer of the CD3/T-cell receptor complex is clonotypic and consists of Ig-like variable and constant domains. (Ref.1) It is expressed during thymopoiesis and on the small subpopulation of gamma/delta TCR expressing T lymphocytes in the periphery. The majority of T cells present in some epithelial tissues are gamma/delta+ and have limited receptor diversity. (Ref.1,2) The TCR gamma/delta heterodimer recognizes peptide antigen bound to MHC antigens, and subsequent signal transduction mediated by the invariant chains leads to T cell activation. (Ref.3)
Host / Isotype:	Hamster / IgG
Clone:	UC7-13D5
Format:	State: Liquid purified Ig fraction. Buffer System: PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent. Label: PE – R-Phycoerythrin
Applications:	Flow Cytometry: $\langle / = 0.3 \ \mu g / 10e6 \ cells.$ (Ref.4-7) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This Monoclonal antibody is specific to the <i>gamma-delta</i> heterodimer and plate-bound UC7-13D5 activates <i>gamma-delta</i> TCR-bearing cells. (Ref.4-7) It does not react with <i>alpha-beta</i> TCR-expressing T cells. Species: Mouse. Other species not tested.

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.



Antibody Hotline - Technical Questions - Antibody Location Service Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com



Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	 Davis, M.M. 1990. Annu. Rev. Biochem. 59:475. Allison, J.P., and W.L. Havran. 1991. Annu. Rev. Immunol. 9:679. Klausner, R.D., and L.E. Samuelson. 1991. Cell 64:875. Dent, A.L., et al. 1990. Nature 343:714. Bluestone, J.A., et al. 1991. Immunol. Rev. 120:5. Houlden, B.A., et al. 1989. Cold Spring Harbor Symp. Quant. Biol. 54:45. Barrett, T.A., et al. 1991. Immunol. Res. 10:341.

8. Unpublished observations.

