

AM33019PU-N**Monoclonal Antibody to T Cell Receptor (TCR) gamma/delta - Purified**

Alternate names:	T-Cell Receptor delta, T-Cell Receptor gamma, T-Cell Receptor gamma delta, TCRD, TCRG
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	Two types of T cell antigen receptors (TCRs) are now known, the α/β , and the γ/δ heterodimer, which are expressed at the cell surface in association with the CD3 molecular complex. TCR- γ can occur in either disulphide-linked or non-disulphide-linked forms. The γ/δ -TCR is present on a minor subset of T- lymphocytes in peripheral blood, thymus, spleen, and lymph nodes. In man and mouse, only a small part of the T-lymphocytes of the peripheral blood (<5%) is γ/δ . γ/δ T-lymphocytes may complement α/β T-cells in terms of antigenic specificities, functional capabilities, or sites of action within the body.
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	11F2
Immunogen:	Derived by fusion of SP2/0-Ag14 mouse myeloma cells with spleen cells from a Balb/C mice immunized with protein A-Sepharose/anti-CD3 antigen complex.
Format:	State: Liquid purified IgG fraction Buffer System: PBS Preservatives: 0.09% Sodium Azide
Applications:	ELISA. Immunoprecipitation. Flow cytometry. Immunohistochemistry on Frozen sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This Antibody clone 11F2 recognizes all molecular forms of the gamma/delta T-cell receptor (TCR) described so far.
Species Reactivity:	Tested: Human.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Borst, J., Van Dongen, J., Bolhuis, R., Peters, P., Hafler, D., De Vries, E., Van de Griend, R. (1988). Distinct molecular forms of human T cell receptor g/d detected on viable T cells by a monoclonal antibody. J Exp Med 167, 1626-44. 2. Vroom TM, Scholte G, Ossendorp F, Borst J. Tissue distribution of human gamma

- delta T cells: no evidence for general epithelial tropism. *J Clin Pathol.* 1991 Dec;44(12):1012-7. PubMed PMID: 1838746.
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 4. Lanier LL, Ruitenbergh J, Bolhuis RL, Borst J, Phillips JH, Testi R. Structural and serological heterogeneity of gamma/delta T cell antigen receptor expression in thymus and peripheral blood. *Eur J Immunol.* 1988 Dec;18(12):1985-92. PubMed PMID: 2975598.
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 6. Testi R, Lanier LL. Functional expression of CD28 on T cell antigen receptor gamma/delta-bearing T lymphocytes. *Eur J Immunol.* 1989 Jan;19(1):185-8. PubMed PMID: 2537735.
 7. Lanier LL, Federspiel NA, Ruitenbergh JJ, Phillips JH, Allison JP, Littman D, et al. The T cell antigen receptor complex expressed on normal peripheral blood CD4-, CD8- T lymphocytes. A CD3-associated disulfide-linked gamma chain heterodimer. *J Exp Med.* 1987 Apr 1;165(4):1076-94. PubMed PMID: 2435832.
 8. Voogt PJ, Falkenburg JH, Fibbe WE, Veenhof WF, Hamilton M, Van Krimpen BA, et al. Normal hematopoietic progenitor cells and malignant lymphohematopoietic cells show different susceptibility to direct cell-mediated MHC-non-restricted lysis by T cell receptor-/CD3-, T cell receptor gamma delta+/CD3+ and T cell receptor-alpha beta+/CD3+ lymphocytes. *J Immunol.* 1989 Mar 1;142(5):1774-80. PubMed PMID: 2521886.