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Anti-gamma-delta TCR [UC7-13D5] Standard Size Ab02557-2.0

This chimeric mouse antibody was made using the variable domain sequences of the original Hamster IgG format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Mouse IgG2a, Kappa

Clone Number: UC7-13D5

Alternative Name(s) of Target: T-cell surface glycoprotein CD3 delta chain; T-cell receptor T3 delta chain; CD3d; T-cell surface glycoprotein CD3 gamma chain; T-cell receptor T3 gamma chain; CD3g

UniProt Accession Number of Target Protein: P11942

Published Application(s): functional assay, FC

Published Species Reactivity: Mouse

Immunogen: This antibody was generated by immunizing a armenian hamster with murine murine gamma-delta TCR.

Specificity: This antibody is specific for mouse gamma and delta TCR. TCR part of the TCR-CD3 complex present on T-lymphocyte cell surface that plays an essential role in adaptive immune response. When antigen presenting cells (APCs) activate T-cell receptor (TCR), TCR-mediated signals are transmitted across the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD3Z.

Application Notes: Alloreactive CD3'CD4- CD8- TCR $\gamma/6+$ Tcell lines were used for a cytolytic assay. During the assay this antibody was used (Rellahan et al, 1991; pmid:1703211). Flow cytometry was preformed on the spleen cells of mice using this antibody (Koenecke et al, 2009; pmid:19130484). Flow cytometry was preformed on lymphoid cells of arthritic mice using this antibody (Peterman et al, 1993; pmid:8245484). A proliferation assay was preformed on inguinal lymph nodes from arthritic mice. The mice were treated with this antibody (Peterman et al, 1993; pmid:8245484).

Antibody First Published in: Rellahan et al. Junctional Sequences Influence the Specificity of γ/b T Cell Receptors J Exp Med. 1991 Feb 1;173(2):503-6. [PMID:1703211](#)

Note on publication: To examine the role of V(D)J junctional sequences in antigen recognition by TCR-gamma/delta, an alloreactive murine TCR-gamma/delta+ T cell line, LKD1, specific for the I-Ad class II major histocompatibility complex (MHC) molecule, and compared its receptor with that expressed by a previously characterized class II MHC alloreactive T cell line, LBK5, specific for I-Ek,b,s Ia molecules was derived.

Product Form

Size: 100 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.