

PE Rabbit anti-Human TCR γ/δ mAb

Catalog No.: A28918

Basic Information

Observed MW

Calculated MW

Category

Primary antibody

Applications

FC

Cross-Reactivity

Human

CloneNo number

ARC79216

Conjugate

PE. Ex:565nm. Em:574nm.

Background

The $\gamma\delta$ T-cell receptor (TCR) is a heterodimer composed of γ and δ chains, expressed on the T-cell surface and involved in antigen recognition. The engagement of the $\gamma\delta$ TCR with antigen triggers the phosphorylation of immunoreceptor tyrosine-based activation motifs (ITAMs) within the CD3 chains. Unlike $\alpha\beta$ T cells, human $\gamma\delta$ T cells recognize and kill transformed cells in a manner unrestricted by human leukocyte antigen (HLA) presentation. $\gamma\delta$ T lymphocytes primarily develop in the thymus, where their defining receptor is generated through RAG-mediated recombination of a relatively limited repertoire of variable (V), diversity (D), and joining (J) gene segments. In addition to the T-cell receptor, $\gamma\delta$ T cells often express activating natural killer (NK) receptors, which bind to stress-induced surface molecules frequently expressed on malignant cells.

Recommended Dilutions

FC 5 μ l per 10^6 cells in
100 μ l volume

Immunogen Information

Gene ID
6964/6965

Swiss Prot

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

TCRD; TRD@; TCRDV1; TCRG; TRG@

Contact

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Product Information

Source
Rabbit

Isotype
IgG

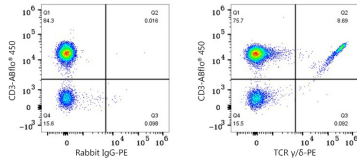
Purification
Affinity purification

Storage

Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

Validation Data



Flow cytometry: 1×10^6 Human PBMC were surface-stained with ABflo® 450 Rabbit anti-Human/Monkey CD3 mAb (A27177, 5 μ l/Test) and PE Rabbit IgG isotype control (A24172, 5 μ l/Test, left) or PE Rabbit anti-Human TCR γ/δ mAb (A28918, 5 μ l/Test, right). Cells in the lymphocyte gate were used for analysis.