

APC Rabbit anti-Human/Monkey TCR γ/δ mAb

Catalog No.: A28555

Basic Information

Observed MW**Calculated MW****Category**

Primary antibody

Applications

FC

Cross-Reactivity

Human, Cynomolgus

CloneNo number

ARC79216

Conjugate

APC. Ex:650nm. Em:660nm.

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

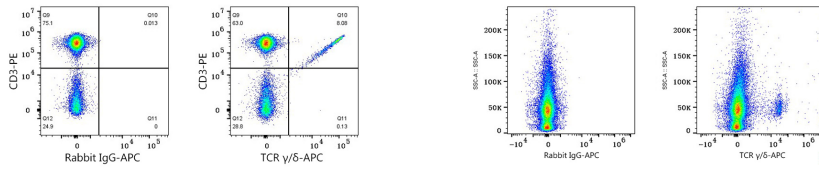
Affinity purification

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 PE Mouse anti-Human CD3 mAb (A25083, 5 $\mu\text{l}/\text{Test}$) and APC Rabbit IgG isotype control (A24173, 5 $\mu\text{l}/\text{Test}$, left) or APC Rabbit anti-Human/Monkey TCR γ/δ mAb (A28555, 5 $\mu\text{l}/\text{Test}$, right). Cells in the lymphocyte gate were used for analysis.

Flow cytometry: 1×10^6 Cynomolgus PBMC were surface-stained with APC Rabbit IgG isotype control (A24173, 5 $\mu\text{l}/\text{Test}$, left) or APC Rabbit anti-Human/Monkey TCR γ/δ mAb (A28555, 5 $\mu\text{l}/\text{Test}$, right).