

# PE Rabbit anti-Human TCR $\gamma/\delta$ 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  $\gamma$  and  $\delta$  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  $\mu$ l per  $10^6$  cells in  
100  $\mu$ 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

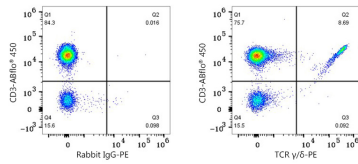
**Storage**

Store at 2-8°C. Avoid freeze.

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

## Validation Data

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Flow cytometry: 1X10<sup>6</sup> Human PBMC were surface-stained with ABflo® 450 Rabbit anti-Human/Monkey CD3 mAb (A27177,5 µl/Test) and PE Rabbit IgG isotype control (A24172,5 µl/Test, left) or PE Rabbit anti-Human TCR γ/δ mAb (A28918,5 µl/Test, right). Cells in the lymphocyte gate were used for analysis.