

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

Catalog NO.: A28422

Basic Information

Observed MW

Calculated MW

Category

Monoclonal Antibodies

Applications

FC

Cross-Reactivity

Human, Cynomolgus

Conjugation

FITC. Ex:491nm. Em:516nm.

Clone number

ARC79216

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@

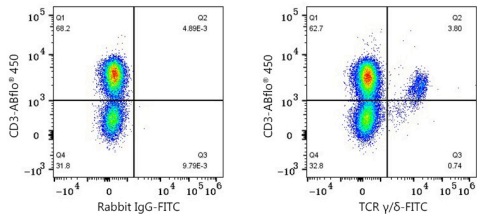
Contact

Product Information

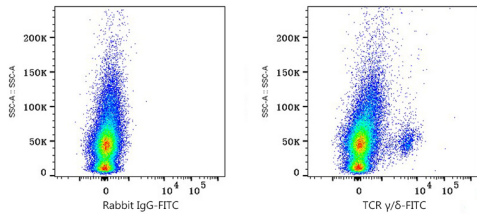
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Source	Isotype	Purification
Rabbit	IgG	Affinity purification
Storage		
Store at 2-8°C. Avoid freeze.		
Buffer: PBS with 0.09% Sodium azide,0.2% BSA,pH7.3.		

Validation Data



Flow cytometry:1X10⁶ Human PBMC were surface-stained with ABflo® 450 Mouse anti-Human CD3 mAb (A25189,5 μl/Test) and FITC Rabbit IgG isotype control (A25616,5 μl/Test,left) or FITC Rabbit anti-Human/Monkey TCR γ/δ mAb (A28422,5 μl/Test,right). Cells in the lymphocyte gate were used for analysis.



Flow cytometry: 1X10⁶ Cynomolgus PBMC were surface-stained with FITC Rabbit IgG isotype control (A25616,5 μl/Test,left) or FITC Rabbit anti-Human/Monkey TCR γ/δ mAb (A28422,5 μl/Test,right).

