

PE anti-mouse TCR V γ 7 Antibody

Catalog# / Size	161705 / 25 μ g 161706 / 100 μ g
Clone	F2.67
Regulatory Status	RUO
Other Names	TCR Vgamma7, TCR V γ 5 (Garman nomenclature), TRGV7, GV4S1
Isotype	Mouse IgG2a, κ
Description	T cell receptor (TCR) is a heterodimer consisting of α/β chains ($\alpha\beta$ T cells) or γ/δ chains ($\gamma\delta$ T cells). $\gamma\delta$ T cells are a minor T cell population in the body, with the usage of γ and δ often associated with specific anatomical localization. Vγ7-expressing $\gamma\delta$ T cells are resident in the intestinal epithelium and contain a high proportion of extrathymically generated cells. It has been reported that butyrophilin-like molecules Btl1 with Btl6 are important in Vγ7⁺ T cell responses.

The F2.67 antibody reacts specifically with mouse TCR V γ 7 (as referred to by the Tonegawa nomenclature system for TCR γ and δ chains). Mouse TCR V γ 7 is also known as TCR V γ 5 under the Garman nomenclature system.

Several TCR γ and δ chain nomenclature systems exist. In order to consolidate the various nomenclature systems, we have created charts for corresponding names across some of the most popular naming methods. [Click here to see charts.](#)

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Mouse hybridoma expressing anti V γ 7V δ 5 TCR
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 μ g per million cells in 100 μ L volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application References	- Pereira P, <i>et al.</i> 2000. <i>Eur J Immunol.</i> 30:1988-97. - Khairallah C, <i>et al.</i> 2015. <i>PLoS Pathog.</i> 11:e1004702. - Di Marco Barros R, <i>et al.</i> 2016. <i>Cell.</i> 167:203-218.
(PubMed link indicates BioLegend citation)	

Antigen Details

Structure	Heterodimer with γ and δ chain
Distribution	Subset of $\gamma\delta$ T cells
Function	Antigen recognition
Interaction	CD3
Cell Type	Lymphocytes, T cells, Thymocytes
Biology Area	Adaptive Immunity, Immunology, Innate Immunity
Molecular Family	TCRs
Gene ID	21641

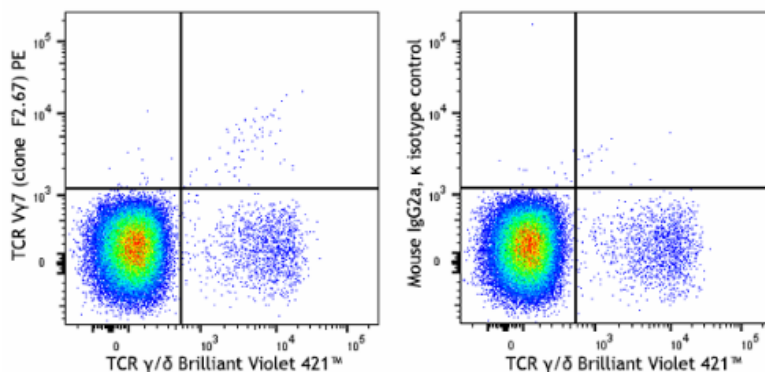
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-mouse TCR V γ 7, FITC anti-mouse TCR V γ 7, Purified anti-mouse TCR V γ 7 Antibody, PE anti-mouse TCR V γ 7

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD3 (clone 17A2) APC, anti-mouse TCR γ/δ (clone GL3) Brilliant Violet 421™, and anti-mouse TCR V γ 7 (clone F2.67) PE (left) or mouse IgG2a, κ PE isotype control (right). Data shown are gated on CD3⁺ cells.

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