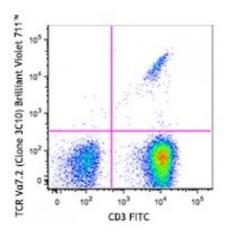
Product Data Sheet

Brilliant Violet 711[™] anti-human TCR Vα7.2

| Catalog # / Size: | 2358655 / 25 tests 2358660 / 100 tests |
|-----------------------|--|
| Clone: | 3C10 |
| Isotype: | Mouse IgG1, к |
| Immunogen: | Recombinant TCR |
| Reactivity: | Human |
| Preparation: | The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711 [™] under optimal conditions. The solution is free of unconjugated Brilliant Violet 711 [™] and unconjugated antibody. |
| Formulation: | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA). |
| Concentration: | 0.2 |



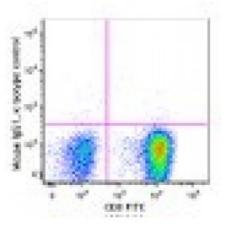
Applications:

| Applications: | Flow Cytometry |
|-----------------------|--|
| 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 ≤ 5 microl, per million cells or 5 microl, per |

suggested use of this reagent is ≤ 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 711[™] excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 711[™] is a trademark of Sirigen Group Ltd.

ApplicationAssociated with an anti-CD161 or -Notes:IL18Rα staining, the 3C10 antibody
allows unequivocal identification of MAIT
cells. Importantly, the Vα7.2 segment
can also be used by conventional T
cells. Therefore, the 3C10 also stains a
subset of conventional CD4 and CD8 T
cells.



Human peripheral blood lymphocytes were stained with CD3 FITC and TCR V α 7.2 (clone 3C10) Brilliant Violet 711TM (top) or mouse IgG1, κ Brilliant Violet 711TM isotype control (bottom).

| Application Reference | |
|--------------------------|--|
| Descriptio | on: The 3C10 antibody recognizes the Vα7.2 T cell antigen receptor (TCR) α-chain segment which, joined with the Jα33 segment, constitutes an invariant TCR that is a characteristic of the mucosal-associated invariant T cells (MAIT cells). MAIT cells are restricted by a nonpolymorphic class Ib major histocompatibility complex (MHC) molecule, MHC-related molecule 1 (MR1). MAIT cells are present in human blood (1-8% of T cells), mesenteric lymph nodes, liver, and intestinal mucosa. MAIT cells play a role in detecting and fighting off microbial infections. |
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