APC/Cy7 anti-human TCR Vα7.2

Catalog # / 2358570 / 100 tests

Size: 2358565 / 25 tests

Clone: 3C10

Isotype: Mouse IgG1, κ **Immunogen:** Recombinant TCR

Reactivity: Human

Preparation: The antibody was purified by affinity

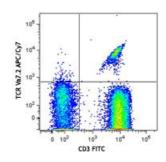
chromatography and conjugated with APC/Cy7 under optimal conditions. The solution is free of unconjugated APC/Cy7 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD3 FITC and TCR $V\alpha7.2$ (clone 3C10, top) APC/Cy7 or mouse lgG1, κ APC/Cy7 isotype control (bottom).

CD3 FITC

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 100 microL of whole blood. It is

recommended that the reagent be titrated for optimal performance for

each application.

Application Notes:

Associated with an anti-CD161 or - IL18R $\!\alpha\!$ staining, the 3C10 antibody

allows unequivocal identification of MAIT cells. Importantly, the $V\alpha7.2$ segment can also be used by conventional T cells. Therefore, the 3C10 also stains a subset of conventional CD4 and CD8 T cells.

Application

1. Martin E, et al. 2009. PLoS Biol. 7:525.

References: 2. Wakao H, et al. 2013. Cell Stem Cell 12:1. PubMed

Description:

The 3C10 antibody recognizes the V α 7.2 T cell antigen receptor (TCR) α -chain segment which, joined with the J α 33 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 lb 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.

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.

Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

Antigen References:	1. Le Bourhis L, et al. 2010. Nat. Immunol. 11:701.

1. Le Bourhis L, et al. 2010. Nat. Immunol. 11:701.