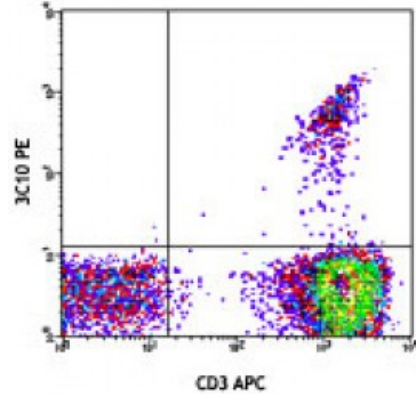


Purified anti-human TCR Vα7.2

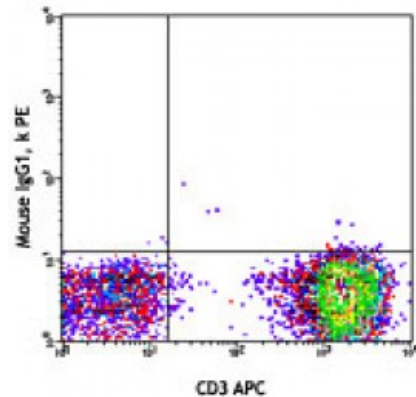
Catalog # / Size: 2358510 / 100 µg
Clone: 3C10
Isotype: Mouse IgG1, κ
Immunogen: Recombinant TCR
Reactivity: Human
Preparation: The antibody was purified by affinity chromatography.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.5



Human peripheral blood lymphocytes stained with CD3 APC and TCR Vα7.2 (clone 3C10) PE (top), or mouse IgG1, κ isotype control (bottom).

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 ≤1.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes: Associated with an anti-CD161 or -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.



Application References: 1. Martin E, *et al.* 2009. *PLoS Biol.* 7:525.
 2. Wakao H, *et al.* 2013. *Cell Stem Cell* 12:1. [PubMed](#)

Description: 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.

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

References: