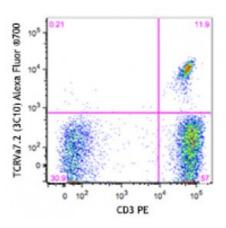
Product Data Sheet

Alexa Fluor[®] 700 anti-human TCR Vα7.2

Catalog # / Size:	2358640 / 100 tests 2358635 / 25 tests
Clone:	3C10
Isotype:	Mouse lgG1, к
Immunogen:	Recombinant TCR
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Concentration:	Lot-specific

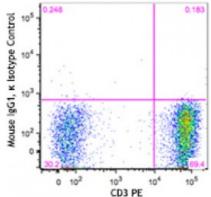


Human peripheral blood lymphocytes were stained with CD3 and TCR V α 7.2 (clone 3C10) Alexa Fluor® 700 (top), or mouse IgG1, κ Alexa Fluor® 700 isotype control (bottom).

Applications:

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Applications:	Flow Cytometry	S
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.	Mouse IgG1, K Isotype Contr
	* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.	
Application Notes:	Associated with an anti-CD161 or - IL18R α staining, the 3C10 antibody allows unequivocal identification of MAIT cells. Importantly, the V α 7.2 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 at al 2000 PLAS Rial 7:525	

Application1. Martin E, et al. 2009. PLoS Biol. 7:525.References:2. Wakao H, et al. 2013. Cell Stem Cell 12:1. PubMed



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 **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: