

PE anti-human TCR Vβ23 Antibody

Catalog# / Size	349406 / 100 tests
Clone	αHUT7
Regulatory Status	RUO
Other Names	T cell receptor Vbeta 23
Isotype	Mouse IgG1, κ
Description	Vβ23 T cell receptor (TCR Vβ23) is a variant of the TCR β chain which is heterodimerized with TCR α chain and expressed on a subset of αβ ⁺ T cells. TCR α/β recognizes peptides presented by the MHC molecules and initiates T cell mediated immune responses. Vβ23 ⁺ T cells are stimulated by the staphylococcal enterotoxin A (SEA) and by the pyrogenic toxin superantigens (PTSAgs) SpeK, SpeL, and SpeM from streptococcus.

Product Details

Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	T-cell leukemia line HUT78
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
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 5 μl per million cells in 100 μl staining volume or 5 μl per 100 μl of whole blood.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Additional reported applications (for the relevant formats) include: stimulation of HUT78 T cells to produce IL-2 ¹ .
Application References	<ol style="list-style-type: none"> 1. Romagne F, <i>et al.</i> 1995. <i>J. Immunol. Methods</i> 186:313. (Stim) 2. Rebai N, <i>et al.</i> 1994. <i>P. Natl. Acad. Sci. USA</i> 91:1529. (FC) 3. Pantaleo G, <i>et al.</i> 1997. <i>P. Natl. Acad. Sci. USA</i> 94:9848. (FC)
(PubMed link indicates BioLegend citation)	
RRID	AB_10918433 (BioLegend Cat. No. 349406)

Antigen Details

Structure	Immunoglobulin superfamily, associate with TCR Vα chain and CD3 complex
Distribution	subset of TCR αβ ⁺ T cells
Function	Recognition of peptides presented by MHC molecules, responsible for T cell mediated immune

	response
Ligand/Receptor	MHC-peptide complex
Cell Type	T cells
Biology Area	Adaptive Immunity, Immunology
Molecular Family	TCRs
Antigen References	<ol style="list-style-type: none"> 1. Guilherme L, et al. 2007. <i>Curr. Protein Pept. Sc.</i> 8:39. 2. Adelman MK. 2007. <i>Crit. Rev. Immunol.</i> 27:221. 3. Beres SB, et al. 2002. <i>P. Natl. Acad. Sci. USA</i> 99:10078. 4. Smoot LM, et al. 2002. <i>Infect. Immunol.</i> 70:7095. 5. Lavoie PM, et al. 2005. <i>Int. Immunol.</i> 17:931.
Gene ID	6957

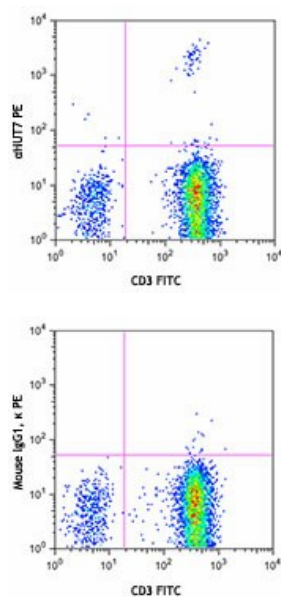
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

PE anti-human TCR V β 23

Product Data



Human peripheral blood lymphocytes were stained with CD3 FITC and TCR V β 23 (clone α HUT7) PE (top), or mouse IgG1, κ PE isotype control (bottom).

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