



Human anti-Human TCR V beta 7.1 recombinant monoclonal antibody, clone SFB982 [FITC] (CABT-B12108)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Isotype	IgG1
Source/Host	Human
Species Reactivity	Human
Clone	SFB982
Conjugate	FITC
Applications	FC
Format	Liquid
Size	100 tests
Buffer	Reagents are supplied in buffer containing stabilizer and 0.05% sodium azide.
Storage	Store protected from light at 2–8 °C. Do not freeze.

BACKGROUND

Introduction	<p>It recognizes the human variable α 7.1 subunit of the $\alpha\beta$ T cell receptor (TCR α27.1). The TCR is a heterodimeric glycoprotein associated with the CD3 antigen. The α and β TCR chains are composed of constant and variable regions, each encoded by distinct gene segments. TCR α27.1 is a variant of the TCR α chain.</p> <p>$\alpha\beta$ T cells express a diverse $\alpha\beta$ TCR repertoire that specifically co-</p>
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recognizes self or foreign antigen bound to antigen-presenting molecules, which thereby leads to T cell-mediated immunity. For example, the TCR can directly bind to peptide fragments, riboflavin precursors, and lipid antigens that are presented by the major histocompatibility complex (MHC) molecules MR1 and CD1, respectively. In each case, the antigen sits within the antigen-binding cleft, whereupon the TCR recognizes a composite surface formed by the antigen-presenting molecule and surface-exposed regions of the antigen itself. This co-recognition paradigm is a central tenet of T cell-mediated immunity and underpins MHC restriction. Additional information: It displays negligible binding to Fc receptors.

Keywords

T cell receptor V beta 7; TCRVB7;TCRBCB1; TCRBCB2; TCRBJB1.1; TCRBJB1.2; TCRBJB1.3; TCRBJB1.4; TCRBJB1.5; TCRBJB1.6; TCRBJB1.7; TCRBJB2.1; TCRBJB2.2; TCRBJB2.3; TCRBJB2.4; TCRBJB2.5; TCRBJB2.6; TCRBJB2.7;T cell receptor beta locus;TCRB
