



Rat Anti-Mouse V β 4 TCR Monoclonal antibody, clone KT4 (CABT-L4444)

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

PRODUCT INFORMATION

Product Overview

The KT4 monoclonal antibody reacts with the V β 4 TCR (V beta 4 T cell receptor) of most known mouse strains. V β 4 TCR-expressing cells are CD4 autoreactive T cells which induce autoimmune thyroiditis after elimination of regulatory T-cell subsets. Plate-bound KT4 antibody has been shown to activate V β 4 TCR-expressing T cells.

Target

Mouse V β 4 TCR

Immunogen

KT4 B10.D2 mouse T cell clone I3

Isotype

IgG2b

Source/Host

Rat

Species Reactivity

Mouse

Clone

KT4

Purification

Protein G purified.
Purity>95%. Determined by SDS-PAGE

Conjugate

Functional Grade

Applications

in vivo administration, FC

Molecular Weight

150 kDa

Format

0.2 μ M filtered liquid. Purified from tissue culture supernatant in an animal free facility

Concentration

Lot specific

Size

5 mg

Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free]
	Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay
	Related dilution buffer: CABT-LB04
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	TCR V β 4 is also called TCRBV4. V β 4 is the human variable β 4 chain of the T cell receptor. It is expressed by 0.8% to 3.3% (mean 1.9%) of peripheral CD3-positive lymphocytes in normal blood.
Keywords	TCRBV4;TCR V β 4;T cell receptor variable β 4 chain

GENE INFORMATION

References	Beus, J. M., et al. (2013). "Heterologous immunity triggered by a single, latent virus in <i>Mus musculus</i> : combined costimulation- and adhesion- blockade decrease rejection." PLoS One 8(8): e71221. PubMed;
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