



Rat Anti-Mouse Vβ4 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 Vβ4 TCR (V beta 4 T cell receptor) of most known mouse strains. Vβ4 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 Vβ4 TCR-expressing T cells.
Target	Mouse Vβ4 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 μM 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 Vβ4 is also called TCRBV4. Vβ4 is the human variable β4 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 Vβ4;T cell receptor variable β4 chain

GENE INFORMATION

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