



Armenian Hamster Anti-Mouse TCR β Monoclonal antibody, clone H57-597 (HB218) (CABT-L4405)

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

PRODUCT INFORMATION

Product Overview

The H57-597 monoclonal antibody reacts with the beta chain of the mouse T cell receptor (TCR). TCR β belongs to the immunoglobulin superfamily and is expressed by thymocytes and T lymphocytes. TCR β combines with TCR α to form TCR α/β . TCR α/β plays a central role in antigen recognition, signal transduction, and T cell activation. The H57-597 antibody has been shown to deplete TCR α/β bearing T cells following in vivo administration.

Target

Mouse TCR β

Immunogen

Affinity purified TCR from mouse DO-11.10 cells

Isotype

IgG

Source/Host

Armenian Hamster

Species Reactivity

Mouse

Clone

H57-597 (HB218)

Purification

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

Conjugate

Functional Grade

Applications

in vivo T cell depletion

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	The T cell receptor or TCR is a molecule found on the surface of T lymphocytes (or T cells) that is responsible for recognizing antigens bound to major histocompatibility complex (MHC) molecules. The binding between TCR and antigen is of relatively low affinity and is degenerate: that is, many TCR recognize the same antigen and many antigens are recognized by the same TCR.
Keywords	Tcrb;T-cell receptor beta chain;TCB;TCBC1;RATTCB;RATTBC1;variable region-beta 8.5;T-cell receptor beta cluster

GENE INFORMATION

Official Symbol	T-cell receptor beta chain
Synonyms	Tcrb;T-cell receptor beta chain;TCB;TCBC1;RATTCB;RATTBC1;variable region-beta 8.5;T-cell receptor beta cluster
References	Schroder, P. M., et al. (2013). "Transient combination therapy targeting the immune synapse abrogates T cell responses and prolongs allograft survival in mice." PLoS One 8(7): e69397. PubMed;