

# Anti-Mouse TCR Beta (H57-597) Antibody In Vivo Antibody - Low Endotoxin

Anti-TCR Beta Antibody (H57-597)

## Product Benefits:

ichorbio's Anti-TCR Beta Antibody (H57-597) can be used for in vivo use as it has low endotoxin, no BSA or preservatives.

## Target:

TCR Beta

## Clone:

H57-597

## Size:

ichorbio's Anti-Mouse TCR Beta In Vivo Antibody – Low Endotoxin (H57-597) is available in the following sizes: 5mg, 10mg, 20mg, 50mg

## Isotype:

Armenian Hamster IgG

## Other names:

TCR- $\beta$  chain, TCR- $\beta$ ,  $\beta$ -TCR

## Host:

Armenian Hamster

## Species Reactivity:

Mouse

## Specificity:

Clone H57-597 recognizes an epitope on the constant region of mouse TCR $\beta$ . Clone H57-597 does not cross-react with  $\beta\beta$  T cells.

## Purification Method:

This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.

**Antigen Distribution:**

TCR $\beta$  is expressed on  $\beta\beta$  thymocytes, peripheral T cells, and NKT cells.

**Background:**

TCR $\beta$  antibody, clone H57-597, recognizes the beta chain of the T cell receptor (TCR $\beta$ ), expressed on  $\beta\beta$  thymocytes and T lymphocytes, as well as natural killer T (NKT) cells. TCR $\beta$  is a transmembrane protein that consists of an amino-terminal variable region, a constant region, and a stalk segment covalently linked to the TCR alpha chain (TCR $\alpha$ ) via a disulfide bond. TCR $\beta$  does not contain signaling domains and is instead noncovalently associated with the CD3 complex (TCR-CD3), essential for TCR signaling. TCR $\beta$  recognizes antigens bound to major histocompatibility complex (MHC) molecules, resulting in phosphorylation of CD3 ITAMs and subsequent T cell activation, proliferation, and survival.

**Immunogen:**

Affinity purified TCR from mouse DO-11.10 cells

**Concentration:**

5mg/ml

**Formulation:**

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added.

**Purity:**

95% monomer by analytical SEC, >95% by SDS Page

**Endotoxin:**

1.0 EU/mg as determined by the LAL method

**Storage:**

This antibody is stable for at least one week when stored sterile at 2-8°C. For long term storage aseptically aliquot in working volumes without diluting and store at -80°C. Avoid Repeated Freeze Thaw Cycles.

**Applications:**

Flow Cytometry, Costimulatory, Depletion, Immunoprecipitation, IHC (Frozen), IHC (Paraffin), CODEX.

**Application notes:**

The suggested concentration for this TCR  $\alpha$  chain (clone H57-597) antibody for staining cells in flow cytometry is 0.25  $\mu$ g per  $10^6$  cells in a volume of 100  $\mu$ l. Titration of the reagent is recommended for optimal performance for each application.

## Isotype Control:

[Armenian Hamster IgG Isotype Control for In Vivo - Low Endotoxin \[PIP\] \(ICH2251\)](#)

## Alternative Names:

- FLJ22602 antibody
- MGC117436 antibody
- MGC22624 antibody
- MGC23964 antibody
- MGC71411 antibody
- T cell antigen receptor alpha polypeptide antibody
- T cell antigen receptor beta polypeptide T cell receptor beta cluster antibody
- T cell receptor alpha (V D J C) antibody
- T cell receptor alpha chain C region antibody
- T cell receptor alpha constant antibody
- T cell receptor alpha locus antibody
- T cell receptor beta cluster antibody
- T cell receptor beta locus antibody
- TCRA antibody
- TCRB antibody
- TCRD antibody
- TRA antibody
- TRAC antibody
- TRB antibody