

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

Product Code: ICH1153

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- β chain, TCR- β , β -TCR

Host:

Armenian Hamster

Species Reactivity:

Mouse

Specificity:

Clone H57-597 recognizes an epitope on the constant region of mouse TCR β . Clone H57-597 does not cross-react with $\gamma\delta$ 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 β is expressed on $\alpha\beta$ thymocytes, peripheral T cells, and NKT cells.

Background:

TCR β antibody, clone H57-597, recognizes the beta chain of the T cell receptor (TCR β), expressed on $\alpha\beta$ thymocytes and T lymphocytes, as well as natural killer T (NKT) cells. TCR β 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 α) via a disulfide bond. TCR α/β does not contain signaling domains and is instead noncovalently associated with the CD3 complex (TCR-CD3), essential for TCR signaling. TCR α/β 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 β chain (clone H57-597) antibody for staining cells in flow cytometry is ≤ 0.25 μg per 10⁶ cells in a volume of 100 μl. 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