

Technical Data Sheet

Anti-Mouse TCR $\hat{I}^2$ chain

Catalog Number: 200401, 200402

Size: 100 ug, 500 ug

Target Name: TCR $\hat{I}$ chain, TCR- $\hat{I}$

Regulatory Status: RUO

Product Details

Clone: H57-597-M2a

Application: FC

Reactivity: Mouse

Format: Purified

Isotype: Mouse IgG2a

Antibody Type: Monoclonal

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

Protein Concentration: 0.5 mg/mL

Storage and Handling: Store the antibody undiluted at 2°C to 8°C.

Background Information

The T cell receptor (TCR) is a heterodimeric molecule expressed on the surface of T lymphocytes, responsible for recognizing antigens presented by MHC molecules. In ~95% of T cells, the TCR consists of an α (alpha) and β (beta) chain ($\alpha\beta$ TCR), while in ~5% of T cells, it is composed of γ (gamma) and δ (delta) chains ($\gamma\delta$ TCR). TCR α is a member of the immunoglobulin superfamily and a component of the CD3/TCR complex, which includes CD3 subunits essential for signal transduction. This complex mediates antigen recognition, signal transduction, and subsequent T cell activation.