

Technical Data Sheet

Anti-Mouse CD4

Catalog Number: 201401, 201402

Size: 100 ug, 500 ug

Target Name: CD4, T4, Leu3a

Regulatory Status: RUO

Product Details

Clone: GK1.5

Application: FC

Reactivity: Mouse

Format: Purified

Isotype: Rat IgG2b

Antibody Type: Monoclonal

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

Protein Concentration: 0.5 mg/mL

Storage and Handling: The antibody solution should be stored between 2°C and 8°C

Background Information

CD4 is a 55 kDa type I transmembrane glycoprotein and a member of the immunoglobulin superfamily. It acts as a co-receptor that, in cooperation with the T cell receptor (TCR), binds to MHC class II molecules on antigen-presenting cells (APCs), stabilizing the immunological synapse and enhancing TCR signaling through association with the Src-family kinase Lck. CD4 is expressed by most thymocytes, the majority of helper T cells, a subset of NK-T cells, and weakly by dendritic cells and macrophages. During thymic development, CD4 is co-expressed with CD8 on double-positive thymocytes before lineage commitment to CD4+ or CD8+ single-positive T cells. CD4 plays a critical role in T cell development and is essential for optimal function of mature T cells.