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30-1753: APC Conjugated, Anti-CD4 Monoclonal Antibody (Clone: GK1.5)

Clonality: Monoclonal **Clone Name:** GK1.5 **FACS** Application: Reactivity: Mouse Conjugate: APC Gene: Cd4 Gene ID: 12504 **Uniprot ID:** P06332 **Alternative Name:** Cd4 Isotype: Rat IgG2b

Immunogen Information: Mouse CTL clone V4 cells

Description

CD4 is a single chain transmembrane glycoprotein of immunoglobulin supergene family. In its extracellular region there are 4 immunoglobulin-like domains (1 Ig-like V-type and 3 Ig-like C2-type). The intracellular region of CD4 associates with p56Lck, a Src-like protein tyrosine kinase. It was described that CD4 segregates into specific detergent-resistant T-cell membrane microdomains. CD4 binds to MHC class II molecules (by CDR2-like region in CD4 domain 1), HIV envelope protein gp120 (by CDR2-like region in CD4 domain 1) and other ligands, such as IL-16 (by to CD4 domain 3) or L-selectin. CD4 is a co-receptor involved in immune response (co-receptor activity in binding to MHC class II molecules) and HIV infection. CD4 regulates T-cell activation, T/B-cell adhesion, T-cell diferentiation, T-cell selection and signal transduction. Defects in antigen presentation (MHC class II) cause dysfunction of CD4+ T-cells and their almost complete absence in patients blood, tissue and organs (SCID immunodeficiency).

Product Info

Amount: 0.1 mg

Storage condition: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

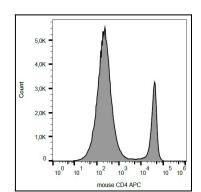


Figure 1: Surface staining of CD4 in murine splenocytes with anti-CD4 (GK1.5) APC.