

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

30-1624: Anti-CD4 Monoclonal Antibody (Clone:GK1.5)-Low Endotoxin

Clonality: Monoclonal Clone Name: GK1.5

Application : FACS, IP, IHC-Fr, ICC, Functional Assay

Reactivity: Mouse
Gene: Cd4
Gene ID: 12504
Uniprot ID: P06332

Format: Low Endotoxin

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

Purification : Purified by protein-G affinity chromatography

Storage condition : Store at 2-8°C. Do not freeze.

Application Note

Flow Cytometry Recommended dilution: 1 Ã□Âμg/million cells Immunoprecipitation Recommended dilution: 1-2 Ã□Âμg/100-500 Ã□Âμg of protein in 1 ml lysate Immunohistochemistry (frozen sections) Immunocytochemistry Recommended dilution: 1-4 Ã□Âμg/ml Functional Application Isolation and depletion of CD4+ T cells, blocking of ligand binding to CD4.