

30-2780: Anti-Ms CD4 Purified

Clonality :	Monoclonal
Clone Name :	GK1.5
Application :	FACS, IP, IHC-Fr, ICC
Reactivity :	Mouse
Gene :	CD4
Gene ID :	12504
Uniprot ID :	P06332
Format :	Purified
Alternative Name :	CD4 molecule T4/Leu-3, L3T4
Immunogen Information :	Mouse CTL clone V4 cells

Description

CD4 (T4) is a single chain transmembrane glycoprotein and belongs to immunoglobulin supergene family. In extracellular region there are 4 immunoglobulin-like domains (1 Ig-like V-type and 3 Ig-like C2-type). Transmembrane region forms 25 aa, cytoplasmic tail consists of 38 aa. Domains 1,2 and 4 are stabilized by disulfide bonds. The intracellular domain of CD4 is associated with p56Lck, a Src-like protein tyrosine kinase. It was described that CD4 segregates into specific detergent-resistant T-cell membrane microdomains. Extracellular ligands: MHC class II molecules (binds to CDR2-like region in CD4 domain 1); HIV envelope protein gp120 (binds to CDR2-like region in CD4 domain 1); IL-16 (binds to CD4 domain 3), human seminal plasma glycoprotein gp17 (binds to CD4 domain 1), L-selectin. Intracellular ligands: p56Lck/CD4 is a co-receptor involved in immune response (co-receptor activity in binding to MHC class II molecules) and HIV infection (human immunodeficiency virus; CD4 is primary receptor for HIV-1 surface glycoprotein gp120). CD4 regulates T-cell activation, T/B-cell adhesion, T-cell differentiation, 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).

Specificity :The rat monoclonal antibody GK1.5 reacts with an extracellular epitope of mouse CD4 transmembrane glycoprotein (55 kDa).

Product Info

Amount :	0.1 mg
Purification :	Purified by protein-G affinity chromatography.
Content :	Concentration: 0.5 mg/ml Storage Buffer: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Immunocytochemistry: Recommended dilution: 1-4 $\mu\text{g/ml}$.

Immunoprecipitation: Recommended dilution: 1-2 μg / 100-500 μg of protein in 1 ml lysate.

Flow cytometry: Recommended dilution: 1 μg /million cells.