



Anti-CD4 monoclonal antibody, clone GK1.5 [R-PE] (CABT-45165RM)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Rat anti Mouse CD4 antibody, clone GK1.5 recognizes mouse CD4, a 55 kDa protein also known as Ly-4 and L3T4. CD4 is a single chain transmembrane glycoprotein which belongs to the immunoglobulin superfamily, and is primarily expressed on peripheral blood monocytes and tissue macrophages. CD4 is also expressed on a subpopulation of regulatory T cells (CD4+ CD25+), which play a key role in the maintenance of self tolerance. Rat anti Mouse CD4 antibody, clone GK1.5 has been reported to block CD4+ T-cell activation. It blocks class II MHC antigen-specific binding, thereby inhibiting functions such as class II MHC antigen-specific proliferation and the release of lymphokines. It may also be used for in vivo and in vitro cell depletion of CD4+ T-cells. Flow Cytometry Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors.

Specificity	CD4
Immunogen	Murine CD4
Isotype	IgG2b
Source/Host	Rat
Species Reactivity	Mouse
Clone	GK1.5
Conjugate	PE
Applications	FC
Format	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised

Size	100 tests
Preservative	0.09% Sodium Azide
Storage	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	Cd4 CD4 antigen [Mus musculus (house mouse)]
Official Symbol	CD4
Synonyms	CD4; CD4 antigen; L3T4; Ly-4; T-cell surface glycoprotein CD4; T-cell surface antigen T4/Leu-3; T-cell differentiation antigen L3T4; T-cell surface glycoprotein CD4 precursor (T-cell surface antigen T4/Leu-3) (T-cell differentiation antigen L3T4);
Entrez Gene ID	12504
Protein Refseq	NP_038516
UniProt ID	P06332
Chromosome Location	6 F2; 6 59.17 cM
Pathway	Adaptive Immune System; Alpha-defensins; Antigen processing and presentation; Cell adhesion molecules (CAMs); Costimulation by the CD28 family; Cytokines and Inflammatory Response (BioCarta); Defensins; Downstream TCR signaling;
Function	coreceptor activity; enzyme binding; glycoprotein binding; protein binding; protein homodimerization activity; protein kinase binding; zinc ion binding;