



Anti-CD4 monoclonal antibody, clone RM4-5 [FITC] (CABT-45148RM)

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

PRODUCT INFORMATION

Product Overview

Rat anti Mouse CD4 antibody, clone RM4-5 detects mouse CD4, a 55 kD protein also known as Ly-4 and L3T4. CD4 is a single chain transmembraneous 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 RM4-5 useful for in vitro blocking of ligand binding, as well as in vitro CD4+ T cell depletions. 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	BALB/c mouse thymocytes
Isotype	IgG2a
Source/Host	Rat
Species Reactivity	Mouse
Clone	RM4-5
Conjugate	FITC
Applications	FC
Procedure	Conjugated Antibodies
Format	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid
Size	100 µg
Preservative	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. 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
mRNA Refseq	NM_013488
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;