

AM26029RP-N**Monoclonal Antibody to CD4 - PE**

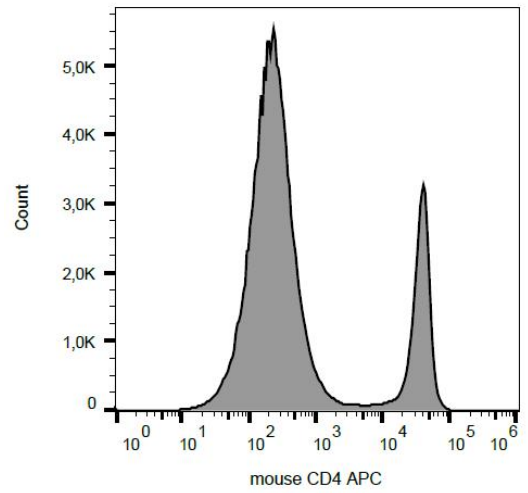
Alternate names:	T-cell surface antigen T4/Leu-3, T-cell surface glycoprotein CD4
Quantity:	0.1 mg
Concentration:	0.5 mg/ml
Background:	CD4 is a single chain transmembrane glycoprotein of immunoglobulin supergene family. In its extracellular region there are 4 immunoglobulin-like domains (1 Ig-like V-type 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 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).
Uniprot ID:	P06332
NCBI:	10090
GenID:	12504
Host / Isotype:	Rat / IgG2b
Recommended Isotype Controls:	SM19R
Clone:	GK1.5
Immunogen:	Mouse CTL clone V4 cells
Format:	State: Liquid purified Ig fraction Buffer System: PBS, approx. pH 7.4 Preservatives: 15 mM sodium azide Label: PE – Conjugated with R-Phycoerythrin under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Applications:	Flow cytometry: 3 µg/ml. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts with an extracellular epitope of mouse CD4 transmembrane glycoprotein (55 kDa).
Species Reactivity:	Tested: Mouse
Storage:	Store the antibody at 2 - 8 °C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Shelf life: one year from despatch.

General Readings:

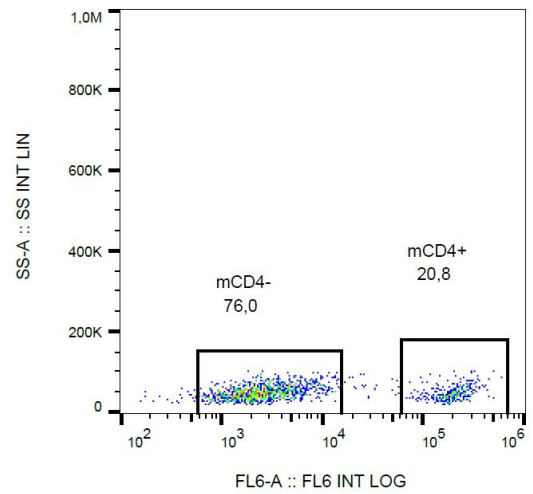
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Pictures:

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



Surface staining of CD4 in murine splenocytes with anti-CD4 (GK1.5) azide free, DAR/APC.



Surface staining of CD4 in murine splenocytes with anti-CD4 (GK1.5) PE.

