

**AM26029FC-N****Monoclonal Antibody to CD4 - FITC**

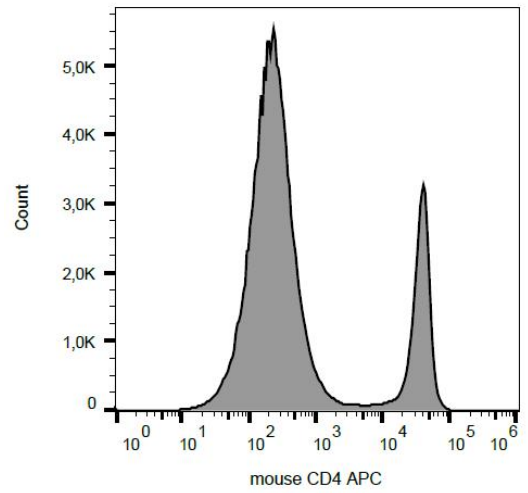
<b>Alternate names:</b>	T-cell surface antigen T4/Leu-3, T-cell surface glycoprotein CD4
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	CD4 is a single chain transmembrane glycoprotein of immunoglobulin supergene family. In its extracellular region there are 4 immunoglobulin-like 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).
<b>Uniprot ID:</b>	<a href="#">P06332</a>
<b>NCBI:</b>	<a href="#">10090</a>
<b>GenID:</b>	<a href="#">12504</a>
<b>Host / Isotype:</b>	Rat / IgG2b
<b>Clone:</b>	GK1.5
<b>Immunogen:</b>	Mouse CTL clone V4 cells
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction <b>Buffer System:</b> Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 <b>Label:</b> FITC – Conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC.
<b>Applications:</b>	<b>Flow cytometry:</b> 3 µg/ml. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody reacts with an extracellular epitope of mouse CD4 transmembrane glycoprotein (55 kDa).
<b>Species Reactivity:</b>	<b>Tested:</b> Mouse
<b>Storage:</b>	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:

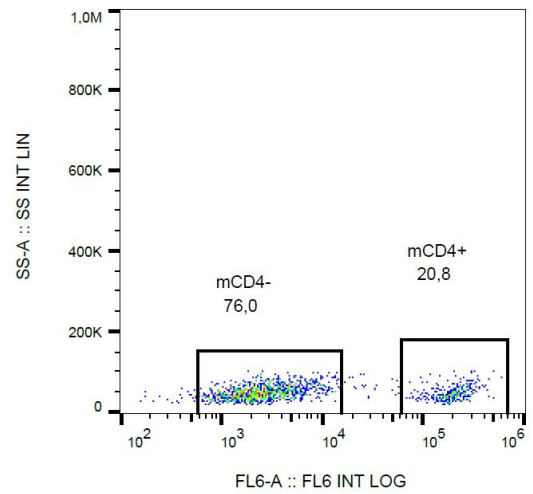
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Pictures:

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.

