

## Product datasheet for **AM26029AC-N**

### **Cd4 Rat Monoclonal Antibody [Clone ID: GK1.5]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	GK1.5
Applications:	FC
Recommended Dilution:	<b>Flow cytometry:</b> 2 µg/ml.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Mouse CTL clone V4 cells
Specificity:	This antibody reacts with an extracellular epitope of mouse CD4 transmembrane glycoprotein (55 kDa).
Formulation:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 Label: APC State: Liquid purified Ig fraction Label: Conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Concentration:	lot specific
Conjugation:	APC
Storage:	Store the antibody at 2 - 8 °C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD4 antigen
Database Link:	<a href="#">Entrez Gene 12504 Mouse P06332</a>



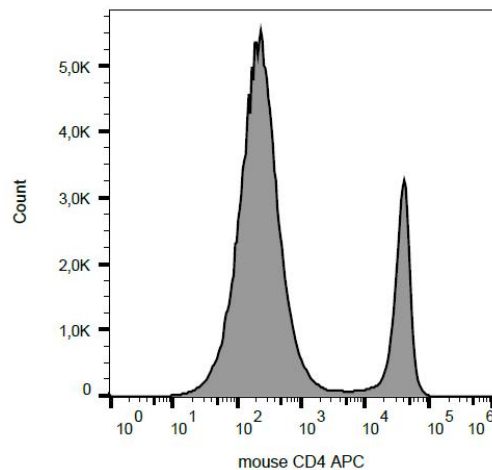
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**Background:**

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).

**Synonyms:**

T-cell surface antigen T4/Leu-3

**Product images:**

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