

AM32703AF-N**Monoclonal Antibody to CD4 - Azide Free**

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 (cluster of differentiation 4) is a glycoprotein expressed on the surface of T helper cells, regulatory T cells, monocytes, macrophages, and dendritic cells. It is a member of the immunoglobulin superfamily. On T cells, it is the co-receptor for the T cell receptor (TCR) and amplifies the signal generated by the TCR by recruiting the tyrosine kinase lck that is essential for activating many molecules involved in the signaling cascade of an activated T cell. It is an important component of the immune system and is also the cellular receptor for HIV-1. It consists of a cytoplasmic tail, one transmembrane region, and four extracellular domains, D1-D4.
Uniprot ID:	P06332
NCBI:	NP_038516.1
GeneID:	12504
Host / Isotype:	Rat / IgG2b
Recommended Isotype Controls:	SM19A
Clone:	GK1.5
Format:	State: Liquid (sterile) purified IgG fraction Purification: Protein G Chromatography Buffer System: PBS, pH 7.4 Preservatives: None Endotoxin Level: < 0.01EU/μg
Applications:	Flow Cytometry (Cell Surface): 0.125-1.0 μg/10 ⁶ cells. Immunofluorescence. Immunoprecipitation. Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Molecular Weight:	52 kDa
Specificity:	Recognizes Mouse CD4. Other species not tested.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Pictures:

BALB/c Mouse splenocytes were stained with a $0.125 \mu\text{g}/10^6$ cells anti-Mouse CD4 Antibody Cat.-No AM32703AF-N (Clone GK1.5) (purple) or Negative Control (green), followed by PE-conjugated Goat anti-Rat Ig (1/200 dilution).

