

## Rat anti-Mouse CD4 Monoclonal Antibody | anti-CD4 antibody

Anti-Ms CD4 FITC

| CATALOG # | HOST | REACTIVITY | APPLICATIONS                     |
|-----------|------|------------|----------------------------------|
| AAA128553 | Rat  | Mouse      | Flow Cytometry, Functional Assay |

### PRODUCT SYNONYMS

CD4; Monoclonal Antibody; Anti-Ms CD4 FITC; CD4 molecule; T4/Leu-3; L3T4; anti-CD4 antibody

### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                  |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rat                                                                                                                                                              |
| Reactivity                                    | Mouse                                                                                                                                                            |
| Clonality                                     | Monoclonal                                                                                                                                                       |
| Isotype                                       | IgG2b                                                                                                                                                            |
| Clone Number                                  | GK1.5                                                                                                                                                            |
| Specificity                                   | The rat monoclonal antibody GK1.5 reacts with an extracellular epitope of mouse CD4 transmembrane glycoprotein (55 kDa).                                         |
| Purity/Purification                           | The purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions. The conjugate is purified by size-exclusion chromatography. |
| Form/Format                                   | Phosphate buffered saline (PBS) solution with 15 mM sodium azide                                                                                                 |
| Concentration                                 | 0.5 mg/ml (varies by lot)                                                                                                                                        |
| Sequence Length                               | 457                                                                                                                                                              |
| Applicable Applications for anti-CD4 antibody | FCM/FACS (Flow Cytometry)                                                                                                                                        |
| Immunogen                                     | Mouse CTL clone V4 cells                                                                                                                                         |
| Conjugation                                   | FITC                                                                                                                                                             |
| Preparation and Storage                       | Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light.                                                                             |

### ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CD4 antibody | <p>CD4 (T4) is a single chain transmembrane glycoprotein and belongs to immunoglobulin supergene family. In extracellular region there are 4 immunoglobulin-like domains (1 Ig-like V-type and 3 Ig-like C2-type). Transmembrane region forms 25 aa, cytoplasmic tail consists of 38 aa. Domains 1,2 and 4 are stabilized by disulfide bonds. The intracellular domain of CD4 is associated with p56Lck, a Src-like protein tyrosine kinase. It was described that CD4 segregates into specific detergent-resistant T-cell membrane microdomains. Extracellular ligands: MHC class II molecules (binds to CDR2-like region in CD4 domain 1); HIV envelope protein gp120 (binds to CDR2-like region in CD4 domain 1); IL-16 (binds to CD4 domain 3), Human seminal plasma glycoprotein gp17 (binds to CD4 domain 1), L-selectin. Intracellular ligands: p56LckCD4 is a co-receptor involved in immune response (co-receptor activity in binding to MHC class II molecules) and HIV infection (human immunodeficiency virus; CD4 is primary receptor for HIV-1 surface glycoprotein gp120). 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).</p> |
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NCBI AND UNIPROT INFORMATION

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|----------------------------------|---------------------------------|
| NCBI GI #                        | 7304953                         |
| NCBI GeneID                      | 12504                           |
| NCBI Accession #                 | NP_038516.1                     |
| NCBI GenBank Nucleotide #        | NP_038516.1                     |
| UniProt Accession #              | P06332                          |
| NCBI Official Full Name          | T-cell surface glycoprotein CD4 |
| NCBI Official Synonym Full Names | CD4 antigen                     |
| NCBI Official Symbol             | Cd4                             |
| NCBI Official Synonym Symbols    | L3T4; Ly-4                      |
| NCBI Protein Information         | T-cell surface glycoprotein CD4 |
| UniProt Protein Name             | T-cell surface glycoprotein CD4 |
| UniProt Gene Name                | Cd4                             |
| UniProt Entry Name               | CD4_MOUSE                       |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/cd4-antibody-clone-gk1-5-flow-cytometry-elisa/128553>