

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

Mouse Monoclonal Antibody (Mab)

|                               |                      |                            |                                            |
|-------------------------------|----------------------|----------------------------|--------------------------------------------|
| CATALOG #<br><b>AAA283569</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA, Western Blot</b> |
|-------------------------------|----------------------|----------------------------|--------------------------------------------|

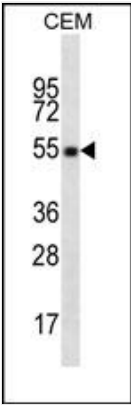
### PRODUCT SYNONYMS

CD4; Monoclonal Antibody; Mouse Monoclonal Antibody (Mab); T-cell surface glycoprotein CD4; T-cell surface antigen T4/Leu-3; anti-CD4 antibody

### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Mouse                                                                                                                                                                                                                                                                                                                                                                                            |
| Reactivity                                    | Human                                                                                                                                                                                                                                                                                                                                                                                            |
| Clonality                                     | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                       |
| Isotype                                       | IgG2b,k                                                                                                                                                                                                                                                                                                                                                                                          |
| Clone Number                                  | OKT4                                                                                                                                                                                                                                                                                                                                                                                             |
| Specificity                                   | This CD4 monoclonal antibody is generated from mouse immunized with CD4 recombinant protein.                                                                                                                                                                                                                                                                                                     |
| Form/Format                                   | Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.                                                                                                                                                                                                                              |
| Concentration                                 | Vial Concentration: 0.47mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                    |
| Sequence Length                               | 458                                                                                                                                                                                                                                                                                                                                                                                              |
| Applicable Applications for anti-CD4 antibody | ELISA, WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                         |
| Antigen Source                                | HUMAN                                                                                                                                                                                                                                                                                                                                                                                            |
| Function                                      | Accessory protein for MHC class-II antigen/T-cell receptor interaction. May regulate T-cell activation. Induces the aggregation of lipid rafts.                                                                                                                                                                                                                                                  |
| Cellular Location                             | Cell membrane; Single-pass type I membrane protein Note=Localizes to lipid rafts. Removed from plasma membrane by HIV-1 Nef protein that increases clathrin-dependent endocytosis of this antigen to target it to lysosomal degradation. Cell surface expression is also down-modulated by HIV-1 Envelope polyprotein gp160 that interacts with, and sequesters CD4 in the endoplasmic reticulum |
| Preparation and Storage                       | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                                                                                                                                                                                                                                           |

IMAGES



**WB (Western Blot)**  
CD4 Antibody western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the CD4 antibody detected the CD4 protein (arrow).

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CD4 antibody | This gene encodes a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigens and is also a receptor for the human immunodeficiency virus. This gene is expressed not only in T lymphocytes, but also in B cells, macrophages, and granulocytes. It is also expressed in specific regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation, and may function as an important mediator of indirect neuronal damage in infectious and immune-mediated diseases of the central nervous system. Multiple alternatively spliced transcript variants encoding different isoforms have been identified in this gene. |
| Product Categories/Family for anti-CD4 antibody   | Immunology; Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| References                                        | Pourgheysari, B., et al. Blood 116(16):2968-2974(2010)<br>Rudd, C.E., et al. J. Immunol. 185(5):2645-2649(2010)<br>Ammirati, E., et al. Arterioscler. Thromb. Vasc. Biol. 30(9):1832-1841(2010)<br>Schenkel, J.M., et al. J. Immunol. 185(4):2013-2019(2010)<br>Lee, K.M., et al. Am. J. Hematol. 85(8):560-563(2010)                                                                                                                                                                                                                                                                                                                                                                                            |

NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 10835167                                       |
| NCBI GeneID                      | 920                                            |
| NCBI Accession #                 | NP_000607.1                                    |
| NCBI GenBank Nucleotide #        | NM_000616.4                                    |
| UniProt Accession #              | P01730; Q4ZGK2; Q5U066; Q9UDE5; B2R737; D3DUS5 |
| NCBI Official Full Name          | T-cell surface glycoprotein CD4 isoform 1      |
| NCBI Official Synonym Full Names | CD4 molecule                                   |
| NCBI Official Symbol             | CD4                                            |
| NCBI Official Synonym Symbols    | CD4mut                                         |
| NCBI Protein Information         | T-cell surface glycoprotein CD4                |

|                      |                                 |
|----------------------|---------------------------------|
| UniProt Protein Name | T-cell surface glycoprotein CD4 |
| UniProt Gene Name    | CD4                             |
| UniProt Entry Name   | CD4_HUMAN                       |

**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://stage.aaabiotech.com/monoclonal/cd4-antibody-clone-okt4-western-blot-elisa/283569>