

## CD4 Monoclonal Antibody-FITC labeled

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| <b>Catalog No.</b>           | IMB0011  |
| <b>Reactivity</b>            | Human  |
| <b>Applications</b>          | ELISA  |
| <b>Gene Name</b>             | CD4  |
| <b>Protein Name</b>          | T-cell surface glycoprotein CD4  |
| <b>Human Gene Id</b>         | 920  |
| <b>Swiss-Prot</b>            | P01730   |
| <b>Formulation</b>           | Purified antibody in PBS containing 0.03% sodium azide.  |
| <b>Source</b>                | Monoclonal, Mouse  |
| <b>Dilution</b>              | ELISA: 1:10000   |
| <b>Purification</b>          | Affinity purification  |
| <b>Concentration</b>         | 1 mg/ml  |
| <b>Storage&amp;Stability</b> | -20°C/1 year   |
| <b>Background</b>            | 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. [provided by RefSeq, Aug 2010], |
| <b>Subcellular Location.</b> | Cell membrane; Single-pass type I membrane protein. Localizes to lipid rafts (PubMed:12517957, PubMed:9168119). 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.  |
| <b>BiowMW</b>                | -  |

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