

## Human CD4 (C-His)

|                           |                   |
|---------------------------|-------------------|
| <b>Catalog Number:</b>    | 810801, 810802    |
| <b>Size:</b>              | 25 ug, 100 ug     |
| <b>Target Name:</b>       | CD4, CD4mut, LEU3 |
| <b>Regulatory Status:</b> | RUO               |

### PRODUCT DETAILS

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|-------------------------------|--|
| <b>Application:</b>           | ELISA, BLI   |
| <b>Format:</b>                | Liquid, Purified   |
| <b>Expression Host:</b>       | CHO  |
| <b>Species:</b>               | Human  |
| <b>Sources:</b>               | Recombinant Human CD4 Protein ( Lys26-Trp390) with C-terminus His-tag is expressed in CHO cell.  |
| <b>Accession Number:</b>      | P01730   |
| <b>Molecular Weight:</b>      | The protein has a predicted molecular weight of 42.3 kDa. Under DTT-reducing conditions, it migrates at approximately 55 kDa on SDS-PAGE.  |
| <b>Affinity Tag:</b>          | C-His  |
| <b>Purity:</b>                | >95% based on SDS-PAGE under reducing condition  |
| <b>Formulation:</b>           | 1xPBS buffer, pH7.4, 0.22 µm filtered  |
| <b>Endotoxin level:</b>       | Not tested   |
| <b>Protein Concentration:</b> | 25µg size is bottled at 0.2mg/mL concentration. 100 µg size is supplied at a lot-specific concentration.   |
| <b>Storage and Handling:</b>  | Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4°C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 µm-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at ≤ -70°C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability. |

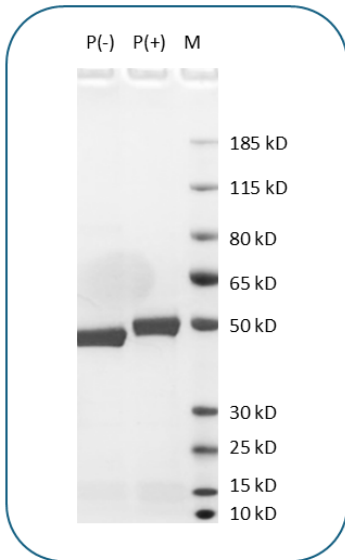
### BACKGROUND INFORMATION

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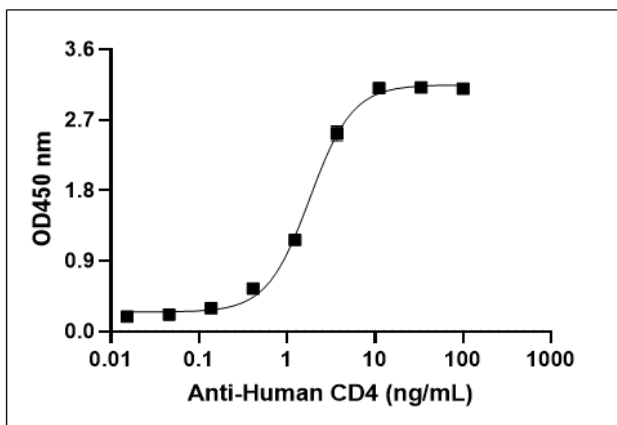
CD4 is a single-pass type I transmembrane glycoprotein belonging to the immunoglobulin superfamily, composed of one Ig-like V-type and three Ig-like C2-type domains. It is expressed on helper T cells, regulatory T cells, monocytes, macrophages, and dendritic cells, functioning as a co-receptor for the T-cell receptor (TCR) by binding MHC class II molecules on antigen-presenting cells to enhance TCR signaling. CD4 also serves as the primary receptor for HIV-1, binding to viral gp120 to mediate viral entry. HIV-1 viral protein U (VpU) binds to the membrane-proximal region of CD4's cytoplasmic domain, promoting its degradation in the endoplasmic reticulum and preventing surface expression, aiding viral immune evasion. CD4 plays a central role in T-cell activation

and HIV infection and is a key focus in immunological and virological research.

**PRODUCT DATA**



Human CD4 Protein (C-His) on SDS-PAGE under reducing condition (P+) and non-reducing condition (P-). The gel was stained for 1 hour with BlinkBlue (catalog 700102). The purity of this protein appears to be greater than 95%.



Human CD4 Protein (C-His) is coated at 1 ug/mL (100ng/well). Anti-human CD4 antibody (Clone OKT4) can bind human CD4 protein in dose-dependent manner with the ED50 of 2-10 ng/mL

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