

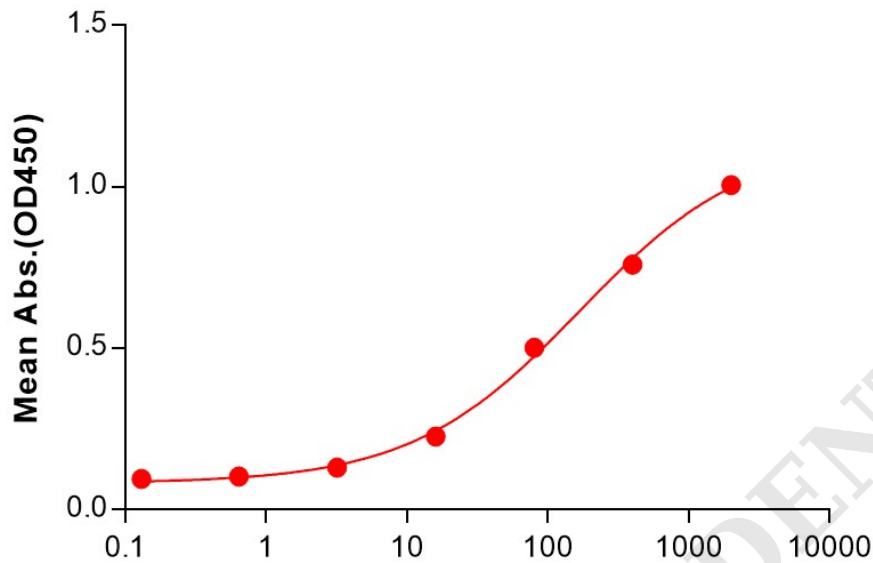
## PRODUCT INFORMATION

|   |   |
|---|---|
| <b>Tag</b>                              | Biotinylated, C-Flag&Avi Tag  |
| <b>Target</b>                           | CD4   |
| <b>Synonyms</b>                         | T4; IMD79; Leu-3; OKT4D; CD4mut   |
| <b>Description</b>                      | Biotinylated Human CD4 full length protein-synthetic nanodisc   |
| <b>Delivery</b>                         | In Stock  |
| <b>Uniprot ID</b>                       | P01730  |
| <b>Expression Host</b>                  | HEK293  |
| <b>Protein Families</b>                 | Transmembrane   |
| <b>Protein Pathways</b>                 | Antigen processing and presentation, Cell adhesion molecules (CAMs), Hematopoietic cell lineage, Primary immunodeficiency, T cell receptor signaling pathway  |
| <b>Molecular Weight</b>                 | The human full length CD4 Protein has a MW of 55.9 kDa  |
| <b>Formulation &amp; Reconstitution</b> | Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for   |
| <b>Storage &amp; Shipping</b>           | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.   |
| <b>Background</b>                       | This gene encodes the CD4 membrane glycoprotein of T lymphocytes. The CD4 antigen acts as a coreceptor with the T-cell receptor on the T lymphocyte to recognize antigens displayed by an antigen presenting cell in the context of class II MHC molecules. The CD4 antigen is also a primary receptor for entry of the human immunodeficiency virus through interactions with the HIV Env gp120 subunit. This gene is expressed not only in T lymphocytes, but also in B cells, macrophages, granulocytes, as well as in various 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, May 2020] |
| <b>Usage</b>                            | Research use only   |
| <b>Conjugate</b>                        | Biotinylated  |



## Biotinylated Human CD4 full length protein-synthetic nanodisc ELISA

0.02  $\mu\text{g}$  of Anti-Flag Rabbit mAb per well



## Biotinylated Human CD4 full length protein-synthetic nanodisc (ng/mL)

Figure 1. ELISA plate pre-coated by 0.2  $\mu\text{g}/\text{mL}$  (100  $\mu\text{L}/\text{well}$ ) Anti-Flag monoclonal antibody can bind Biotinylated Human CD4 full length protein-synthetic nanodisc (FLP100160B) in a linear range of 16-2000 ng/mL. In order to specifically detect FLP100160B, HRP Conjugated Streptavidin was used as detection antibody.



Figure 2. Biotinylated Human CD4-Nanodisc, Flag Tag on SDS-PAGE

