

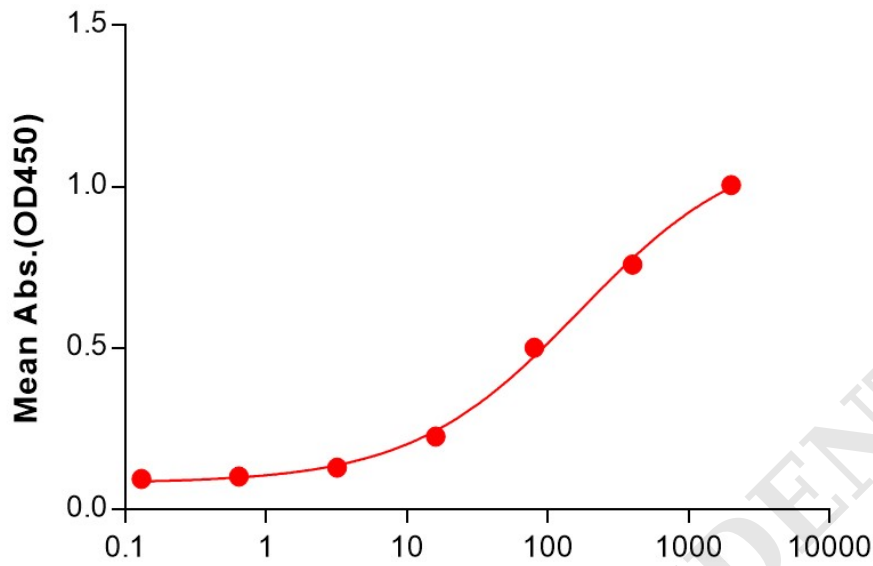
PRODUCT INFORMATION

Tag	C-Flag&Avi Tag
Expression Host	HEK293
Target	CD4
Synonyms	T4; IMD79; Leu-3; OKT4D; CD4mut
Description	Biotinylated Human CD4 full length protein-synthetic nanodisc
Uniprot ID	P01730
Protein Families	Transmembrane
Protein Pathways	Antigen processing and presentation, Cell adhesion molecules (CAMs), Hematopoietic cell lineage, Primary immunodeficiency, T cell receptor signaling pathway
Molecular Weight	The human full length CD4 Protein has a MW of 55.9 kDa
Delivery	In Stock
Formulation & Reconstitution	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 specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
Storage&Shipping	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.
Background	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]
Usage	Research use only
Conjugate	Biotinylated



Biotinylated Human CD4 full length protein-synthetic nanodisc ELISA

0.02 μg 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

