Biotinylated Human CD4 full length protein-synthetic nanodisc

Cat. No. FLP100160B

DIMA BIOTECH

PRODUCT INFORMATION

Target	CD4
Synonyms	T4; IMD79; Leu-3; OKT4D; CD4mut
Description	Biotinylated Human CD4 full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	P01730
Expression Host	HEK293
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
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.
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

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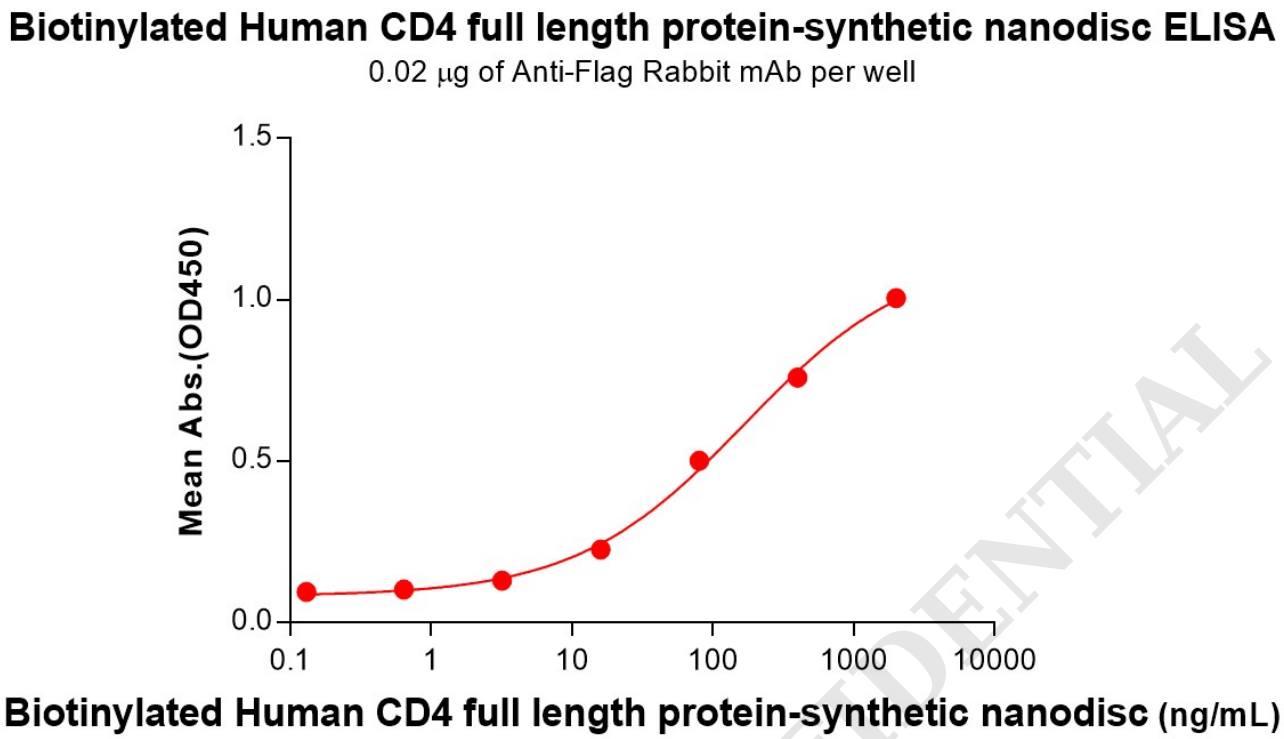

Figure 1. ELISA plate pre-coated by 0.2 μg/mL (100 μL/well) Anti-Flag monoclonal antibody can bind Biotinylated Human CD4 full length protein-synthetic nanodisc (FLP100160B) in a linear range of 16–2000 ng/mL. In order to specifically detect FLP100160B, HRP Conjugated Streptavidin was used as detection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

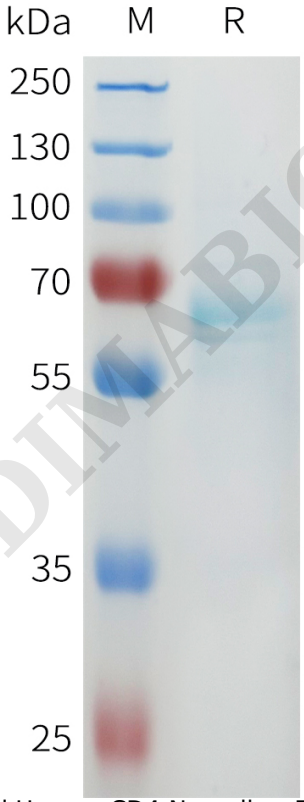

Figure 2. Biotinylated Human CD4-Nanodisc, Flag Tag on SDS-PAGE

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