

PRODUCT INFORMATION

Tag	C-Flag Tag
Expression Host	HEK293
Target	CD63
Synonyms	LAMP-3; ME491; MLA1; OMA81H; TSPAN30
Description	Human CD63 full length protein-synthetic nanodisc
Uniprot ID	P08962
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Lysosome
Molecular Weight	The human full length CD63 protein has a MW of 25.6 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	The protein is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. The encoded protein is a cell surface glycoprotein that is known to complex with integrins. It may function as a blood platelet activation marker. Deficiency of this protein is associated with Hermansky-Pudlak syndrome. Also this gene has been associated with tumor progression. Alternative splicing results in multiple transcript variants encoding different protein isoforms.
Usage	Research use only
Conjugate	Unconjugated



ELISA assay to evaluate CD63-Nanodisc 0.2 μ g Human CD63-Nanodisc per well

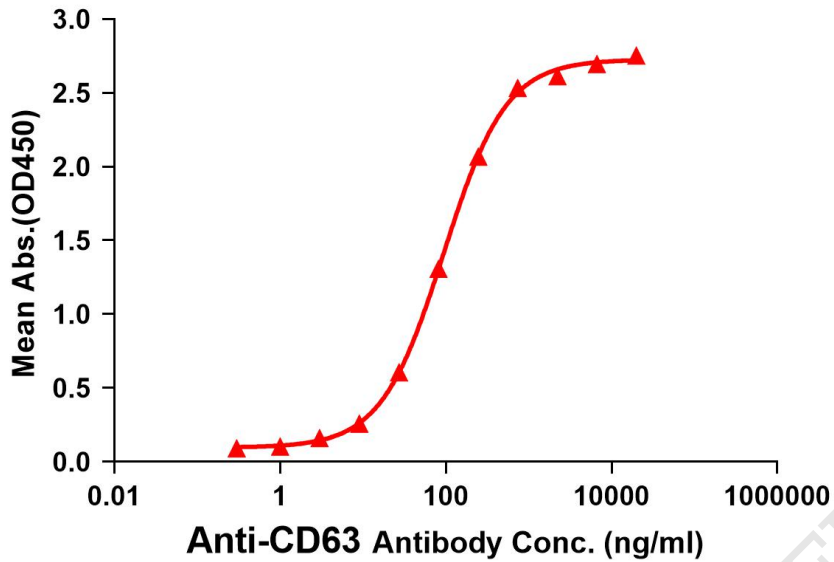


Figure 1. Elisa plates were pre-coated with Flag Tag CD63-Nanodisc (0.2 μ g/per well). Serial diluted anti-CD63 monoclonal antibody (DMC100425) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CD63 monoclonal antibody binding with CD63-Nanodisc is 94.22ng/ml.



Figure 2. Human CD63-Nanodisc, Flag Tag on SDS-PAGE



ELISA assay to evaluate CD63-Nanodisc 0.2µg Human CD63-Nanodisc per well

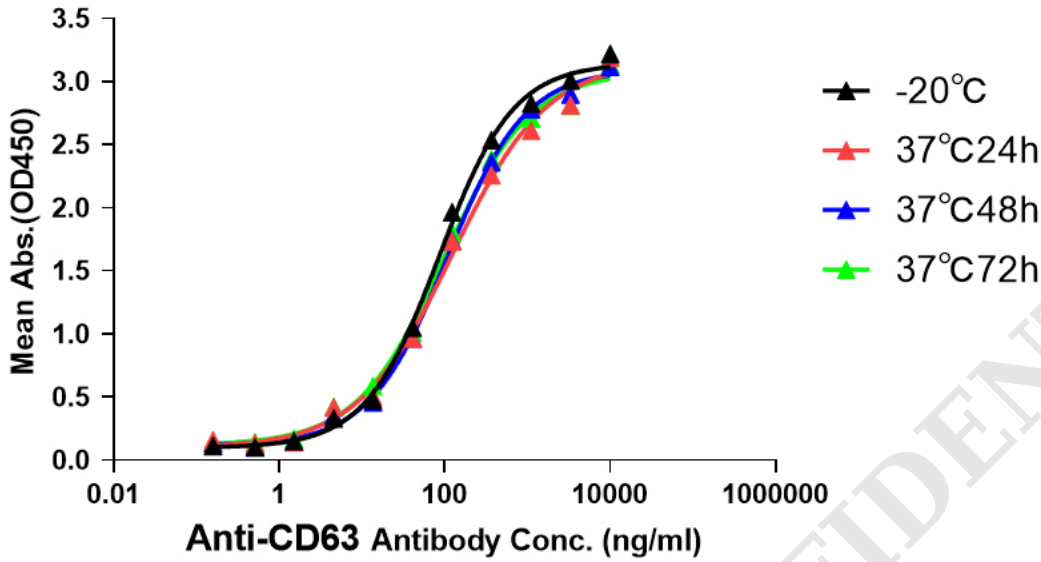


Figure 3. ELISA assay evaluating the stability of Human CD63 full-length protein in synthetic nanodiscs (SKU# FLP100030).

ELISA assay to evaluate CD63-Nanodisc 0.2µg Human CD63-Nanodisc per well

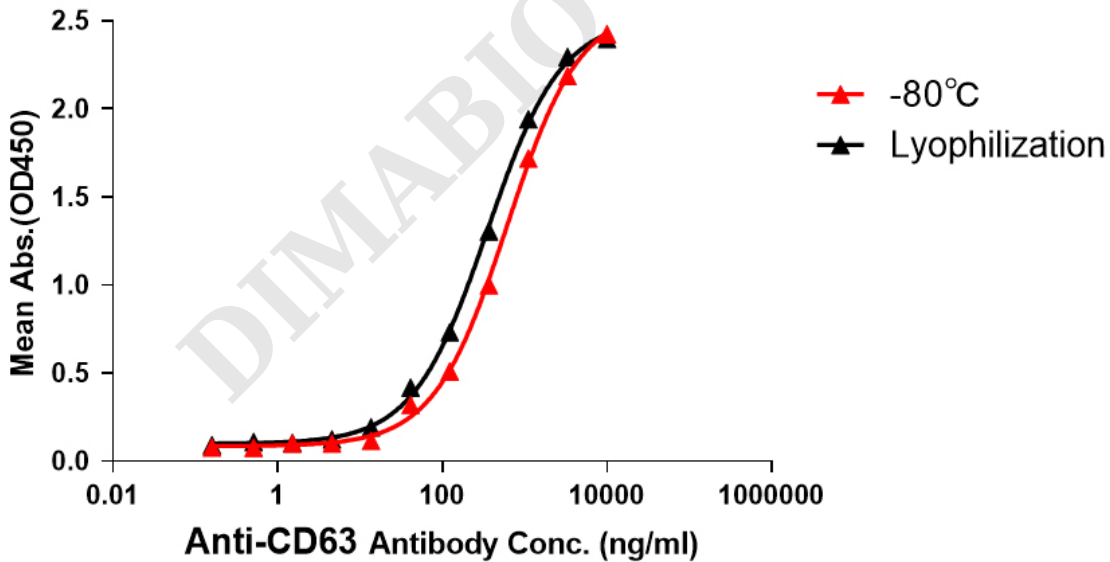


Figure 4. ELISA assay evaluating the stability of Human CD63 full-length protein in synthetic nanodiscs (SKU# FLP100030).

