PRODUCT INFORMATION

Tag	C-Flag Tag
Target	CD63
Synonyms	LAMP-3; ME491; MLA1; OMA81H; TSPAN30
Description	Human CD63 full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	P08962
Expression Host	HEK293
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Lysosome
Molecular Weight	The human full length CD63 protein has a MW of 25.6 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 of reconstitution.
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

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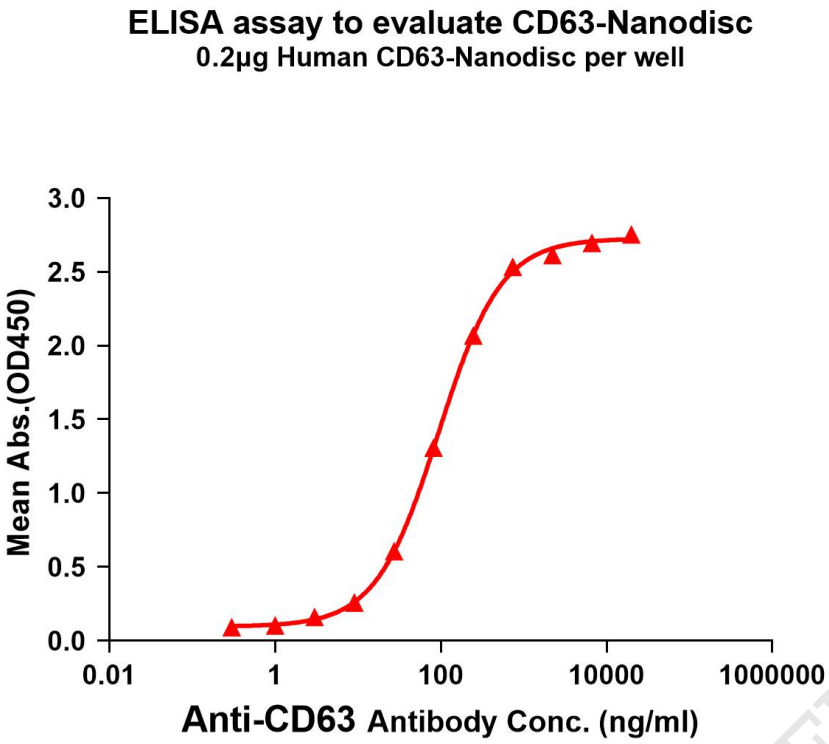

Figure 1. Elisa plates were pre-coated with Flag Tag CD63-Nanodisc (0.2μg/per well). Serial diluted anti-CD63 monoclonal antibody (DMC100425) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CD63 monoclonal antibody binding with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

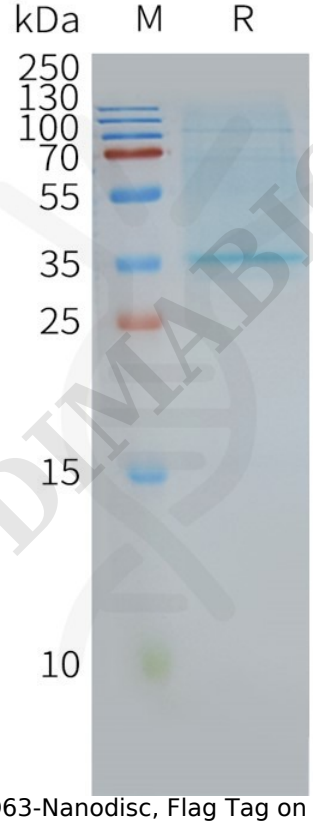

Figure 2. Human CD63-Nanodisc, Flag Tag on SDS-PAGE

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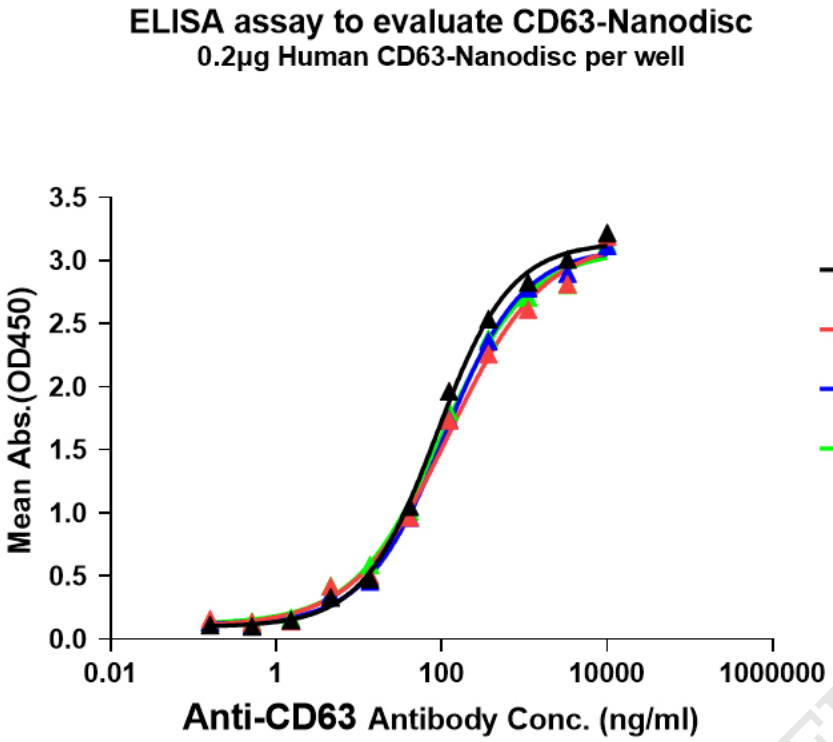

Figure 3. ELISA assay evaluating the stability of Human CD63 full-length protein in synthetic nanodiscs (SKU# FLP100030).

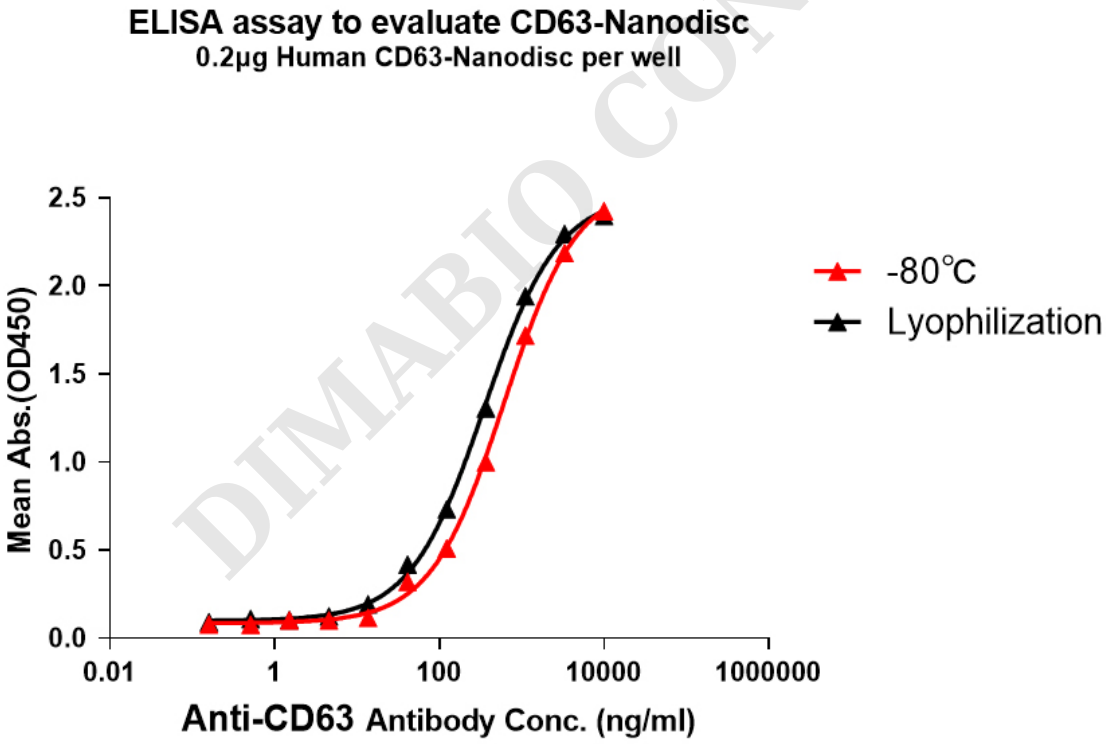

Figure 4. ELISA assay evaluating the stability of Human CD63 full-length protein in synthetic nanodiscs (SKU# FLP100030).

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