

**PRODUCT INFORMATION**

<b>Target</b>	CD63
<b>Synonyms</b>	LAMP-3; ME491; MLA1; OMA81H; TSPAN30
<b>Description</b>	Human CD63 full length protein membrane nanoparticles (MNPs)
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P08962
<b>Expression Host</b>	HEK293
<b>Protein Families</b>	Druggable Genome, Transmembrane
<b>Protein Pathways</b>	Lysosome
<b>Molecular Weight</b>	The human full length CD63 protein has a MW of 25.6 kDa
<b>Formulation &amp; Reconstitution</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
<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>	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.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



### ELISA assay to evaluate CD63-MNPs

0.5 $\mu$ g Human CD63-MNPs per well

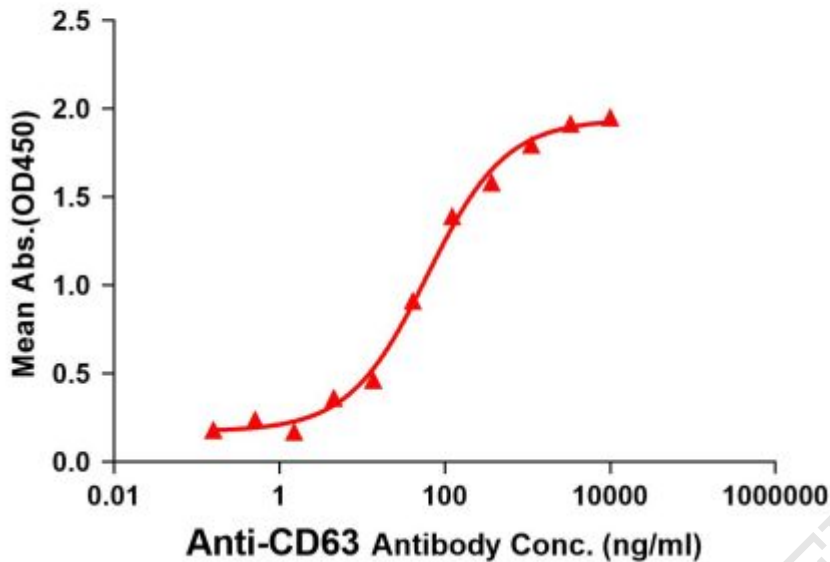


Figure1. Elisa plates were pre-coated with 0.5 $\mu$ g/per well purified human CD63 full length membrane nanoparticles. Serial diluted anti-CD63 monoclonal antibody (DMC100425) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CD63 monoclonal antibody binding with CD63 full length membrane nanoparticles is 61.65ng/ml.

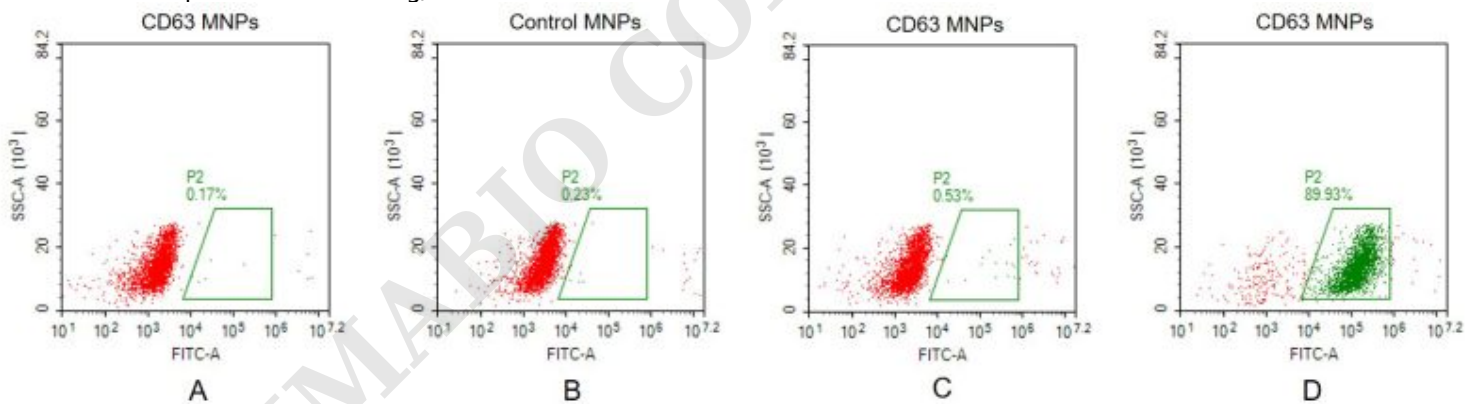


Figure2. FACS analysis of CD63 MNPs

A. Negative Control 1: CD63 full length membrane nanoparticles samples were stained only with Goat anti-human IgG 488 secondary antibody.

B. Negative Control 2: Control membrane nanoparticles samples were stained with anti-CD63 antibody (DMC100425) at 2 $\mu$ g/mL, followed by Goat anti-human IgG 488 secondary antibody.

C. Negative Control 3: CD63 full length membrane nanoparticles samples were stained with anti-GPRC5D antibody (an irrelevant antibody) at 2 $\mu$ g/mL, followed by Goat anti-human IgG 488 secondary antibody.

D. CD63 full length membrane nanoparticles samples were stained with anti-CD63 antibody (DMC100425) at 2 $\mu$ g/mL, followed by Goat anti-human IgG 488 secondary antibody.

