PRODUCT INFORMATION

Target	CD63
Synonyms	LAMP-3; ME491; MLA1; OMA81H; TSPAN30
Description	Human CD63 full length protein membrane nanoparticles (MNPs)
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 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.
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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Address: Wuhan institute of Biotechnology B7, Biolake No.666 Gaoxin Road, Wuhan, Hubei, China
Telephone: +1 2409940618(USA)
/+86-18062749453(China)
/+86-400-006-0995(China)

Email: info@dimabio.com
Website: www.dimabio.com

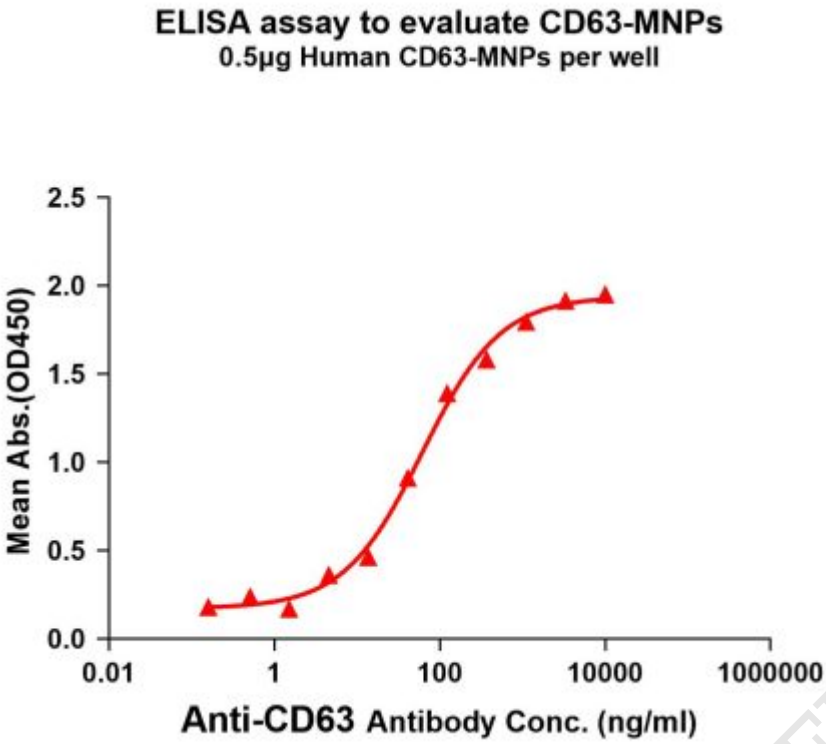


Figure1. Elisa plates were pre-coated with 0.5μg/per well purified human CD63 full length membrane nanoparticles. Serial diluted anti-CD63 monoclonal antibody (DMC100425) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CD63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

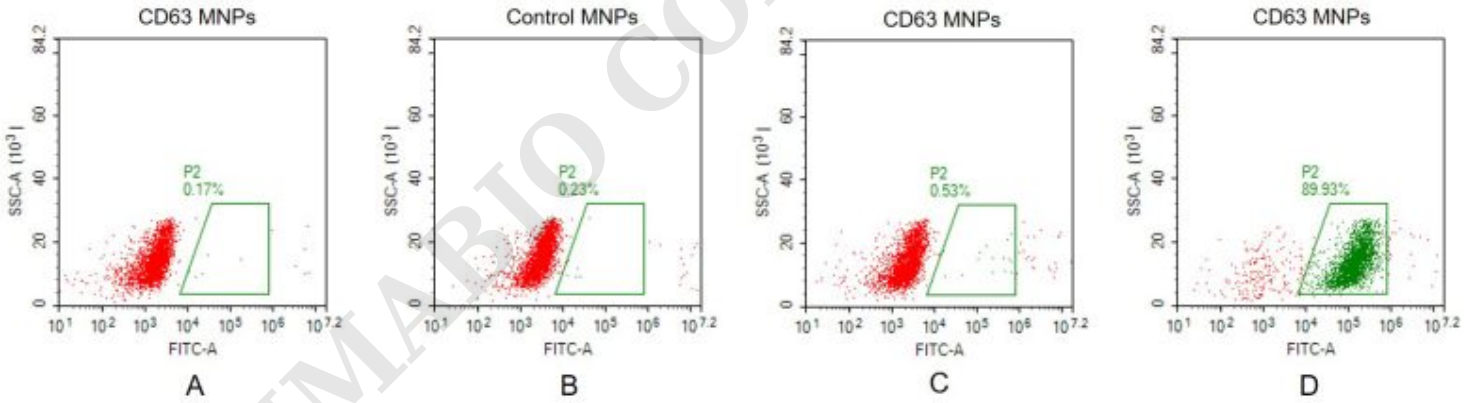


Figure2. FACS analysis of CD63 MNPs
A. Negative Control 1: CD63 full length membrane nanoparticles samples were stained only with Goat anti-human IgG 488 secondary antibody.
B. Negative Control 2: Control membrane nanoparticles samples were stained with anti-CD63 antibody (DMC100425) at 2μg/mL, followed 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 2μg/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 2μg/mL, followed by Goat anti-human IgG 488 secondary antibody.

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