PRODUCT INFORMATION

Tag	C-Flag Tag
Expression Host	HEK293
Target	CD20
Synonyms	B1; Bp35; CVID5; FMC7; LEU-16; MS4A1; S7
Description	Human CD20 full length protein membrane nanoparticles (MNPs)
Uniprot ID	P11836
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Hematopoietic cell lineage
Molecular Weight	The human full length CD20 protein has a MW of 33.1 kDa
Delivery	In Stock
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.
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	A member of the membrane-spanning 4A gene family. Members of this nascent protein family are characterized by common structural features and similar intron/exon splice boundaries and display unique expression patterns among hematopoietic cells and nonlymphoid tissues. This gene encodes a B-lymphocyte surface molecule which plays a role in the development and differentiation of B-cells into plasma cells. This family member is localized to 11q12, among a cluster of family members. Alternative splicing of this gene results in two transcript variants which encode the same protein.
Usage	Research use only
Conjugate	Unconjugated

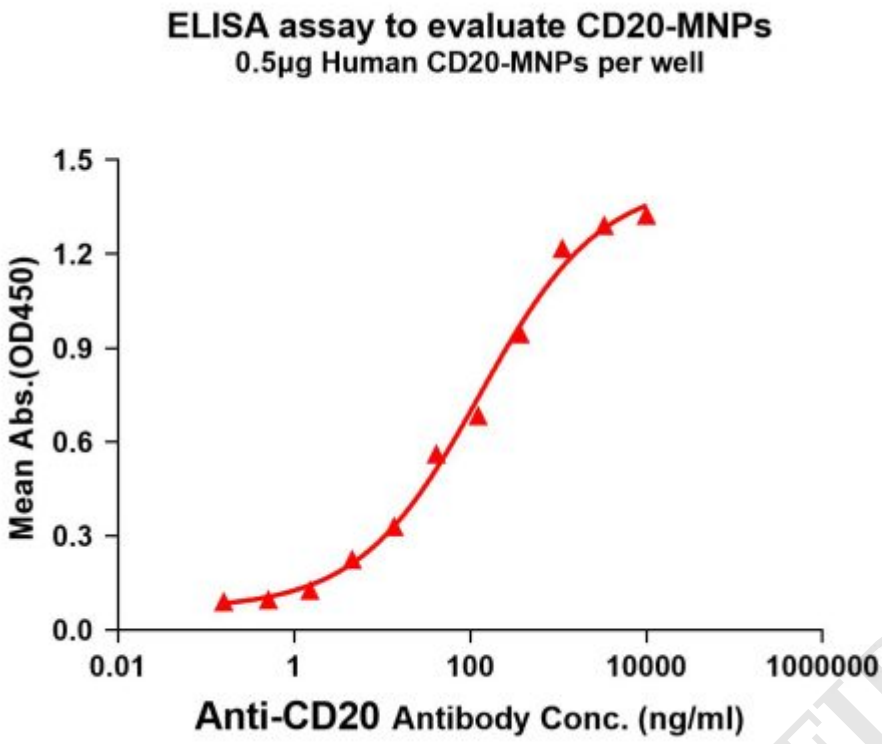

Figure1. Elisa plates were pre-coated with 0.5μg/per well purified human CD20 full length membrane nanoparticles. Serial diluted anti-CD20 monoclonal antibody (BME100160) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CD20 monoclonal antibody binding with CD20 full length membrane nanoparticles is 128.8ng/ml.

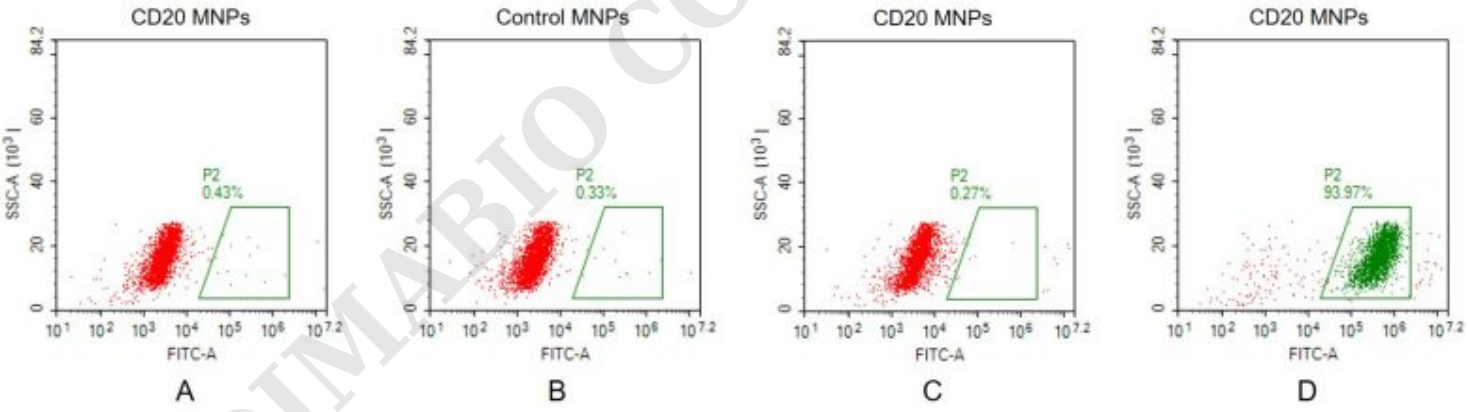

Figure2. FACS analysis of CD20 MNPs A. Negative Control 1: CD20 full length membrane nanoparticles samples were stained only with Goat anti-human IgG 488 secondary antibody. B. Negative Control 2: Control membrane nanoparticles samples were stained with anti-CD20 antibody (BME100160) at 2μg/mL, followed by Goat anti-human IgG 488 secondary antibody. C. Negative Control 3: CD20 full length membrane nanoparticles samples were stained with anti-CCR8 antibody (an irrelevant antibody) at 2μg/mL, followed by Goat anti-human IgG 488 secondary antibody. D. CD20 full length membrane nanoparticles samples were stained with anti-CD20 antibody (BME100160) at 2μg/mL, followed by Goat anti-human IgG 488 secondary antibody.