

## PRODUCT INFORMATION

<b>Tag</b>	C-Flag Tag
<b>Target</b>	CD20
<b>Synonyms</b>	B1; Bp35; CVID5; FMC7; LEU-16; MS4A1; S7
<b>Description</b>	Human CD20 full length protein membrane nanoparticles (MNPs)
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P11836
<b>Expression Host</b>	HEK293
<b>Protein Families</b>	Druggable Genome, Transmembrane
<b>Protein Pathways</b>	Hematopoietic cell lineage
<b>Molecular Weight</b>	The human full length CD20 protein has a MW of 33.1 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>	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.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



**ELISA assay to evaluate CD20-MNPs**  
0.5 $\mu$ g Human CD20-MNPs per well

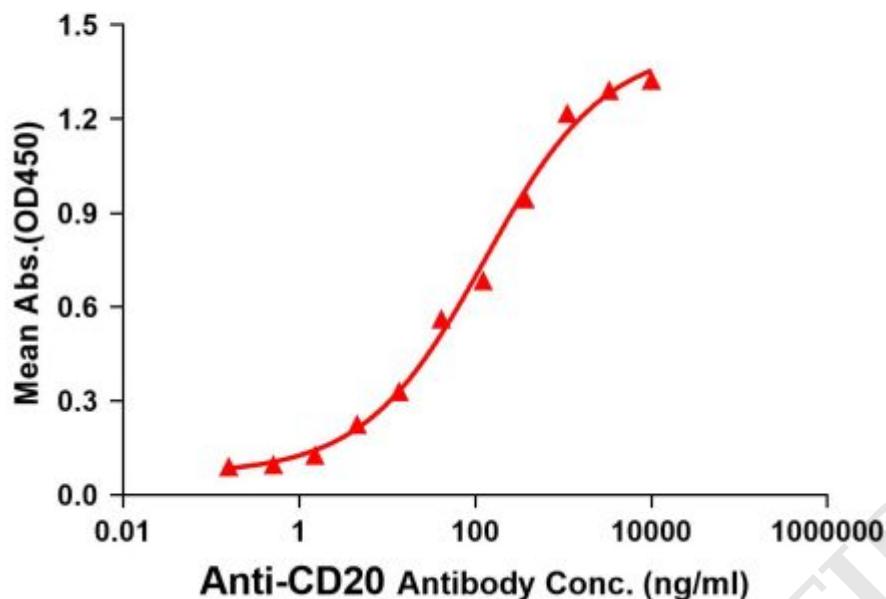


Figure1. Elisa plates were pre-coated with 0.5 $\mu$ g/per well purified human CD20 full length membrane nanoparticles. Serial diluted anti-CD20 monoclonal antibody (BME100160) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CD20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

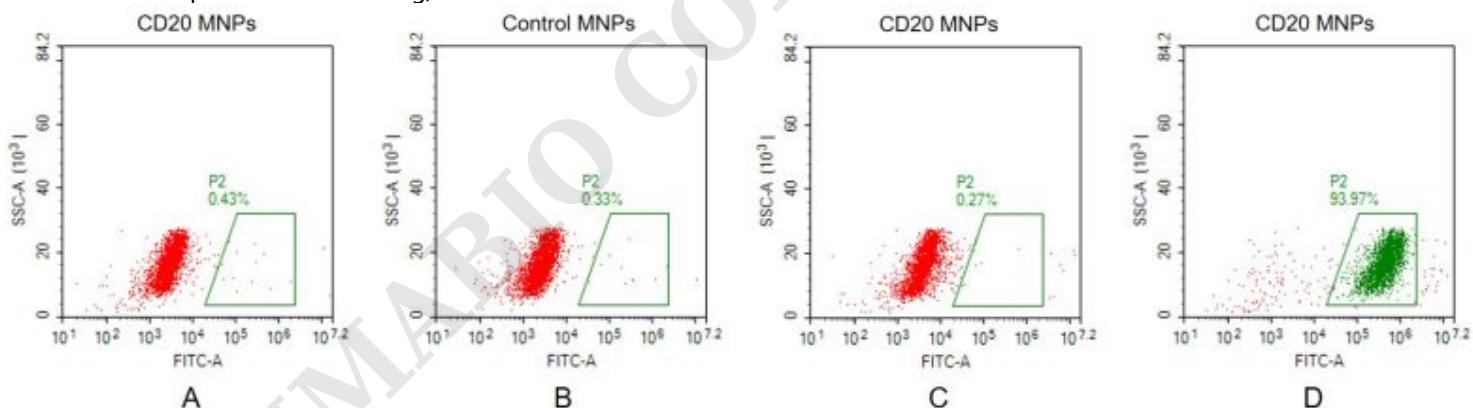


Figure2. FACS analysis of CD20 MNPs

- 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 2 $\mu$ g/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 2 $\mu$ g/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 2 $\mu$ g/mL, followed by Goat anti-human IgG 488 secondary antibody.

