

HUMAN CD20 FULL LENGTH PROTEIN

Cat.#: 12232

Product Name: Human CD20 Full Length Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: B1; Bp35; CVID5; FMC7; LEU-16; MS4A2; S7

Target: CD20

UNIPROT ID: P11836

Description: Human CD20 full length protein membrane nanoparticles (MNPs)

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.

Species/Host: HEK293

Molecular Weight: The human full length CD20 protein has a MW of 33.1 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.

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.

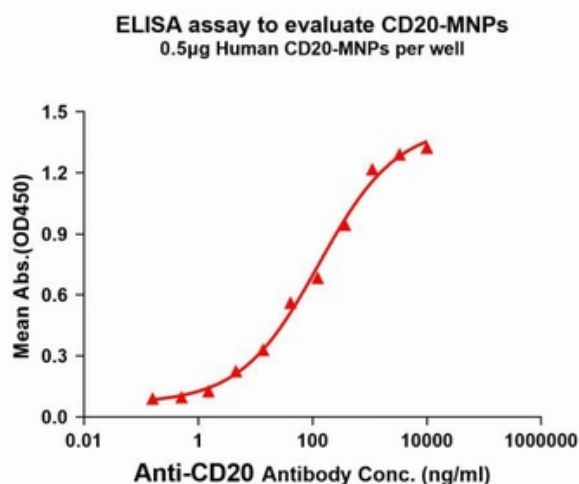


Figure1. Elisa plates were pre-coated with 0.5 µg/per well purified human CD20 full length membrane nanoparticles. Serial diluted anti-CD20 monoclonal antibody (28152) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CD20 monoclonal antibody binding with CD20 full length membrane nanoparticles is 128.8ng/ml.

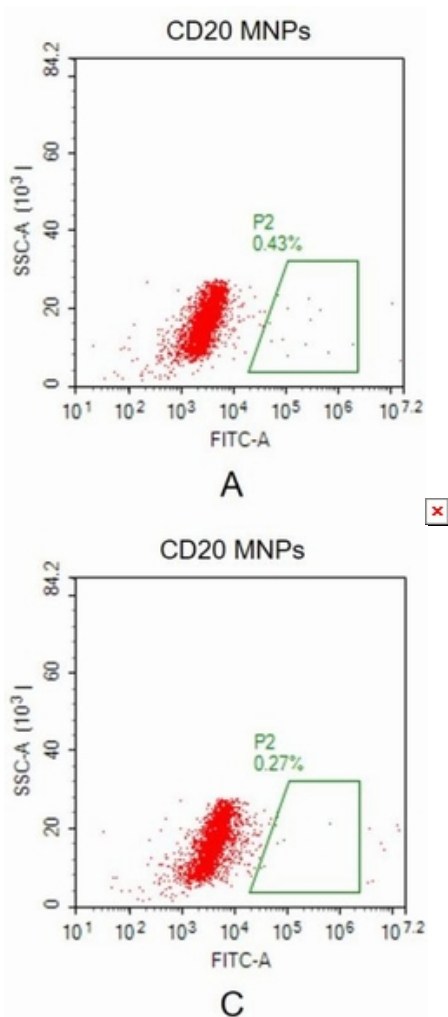


Figure2. FACS analysis of CD20 MNPs A. Negative Control 1: CD20 full length membrane nanoparticles samples were stained only with Goat anti-human IgG 488 secondary antibody. B. Negative Control 2: Control membrane nanoparticles samples were stained with anti-CD20 antibody (28152) at 2µg/ml, followed 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 (28152) at 2µg/ml, followed by Goat anti-human IgG 488 secondary antibody.

