

## PRODUCT INFORMATION

<b>Tag</b>	C-Flag Tag
<b>Expression Host</b>	HEK293
<b>Target</b>	CD20
<b>Synonyms</b>	B1; Bp35; CVID5; FMC7; LEU-16; MS4A1; S7
<b>Description</b>	Human CD20 full length protein-synthetic nanodisc
<b>Uniprot ID</b>	P11836
<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>Delivery</b>	In Stock
<b>Formulation &amp; Reconstitution</b>	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. Please see Certificate of Analysis for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.
<b>Sterility</b>	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
<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-Nanodisc 0.2 $\mu$ g Human CD20-Nanodisc per well

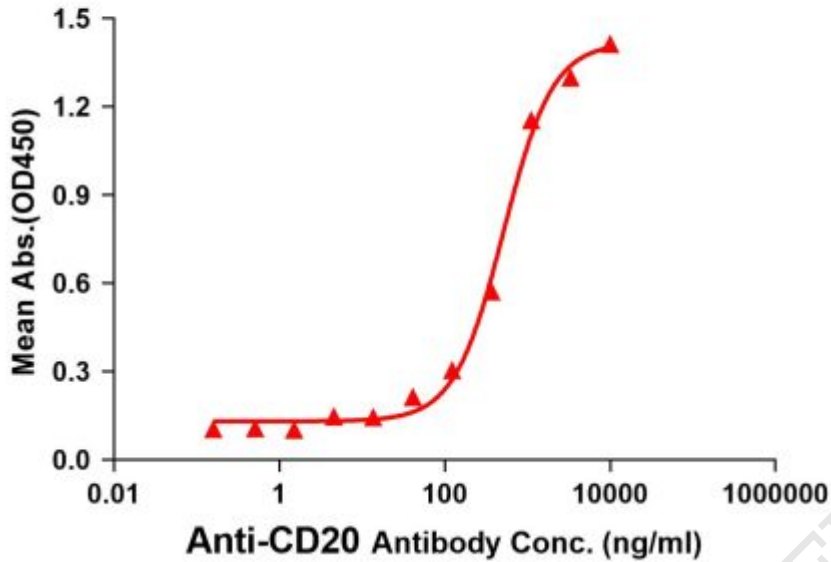


Figure1. Elisa plates were added with Flag Tag CD20-Nanodisc (0.2 $\mu$ g/per well) on an anti-Flag monoclonal antibody pre-coated (0.5 $\mu$ g/per well) plate. Serial diluted anti-CD20 monoclonal antibody (BME100160) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CD20 monoclonal antibody binding with CD20-Nanodisc is 514.4ng/ml.



Figure2. Human CD20-Nanodisc, Flag Tag on SDS-PAGE

