PRODUCT INFORMATION

Tag	C-Flag Tag
Target	CD47
Synonyms	IAP; MER6; OA3
Description	Human CD47 full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	Q08722
Expression Host	HEK293
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	ECM-receptor interaction
Molecular Weight	The human full length CD47 protein has a MW of 35.2 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. 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	A membrane protein involved in the increase in intracellular calcium concentration that occurs upon cell adhesion to extracellular matrix. The encoded protein is also a receptor for the C-terminal cell binding domain of thrombospondin, and it may play a role in membrane transport and signal transduction. This gene has broad tissue distribution, and is reduced in expression on Rh erythrocytes.
Usage	Research use only
Conjugate	Unconjugated

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

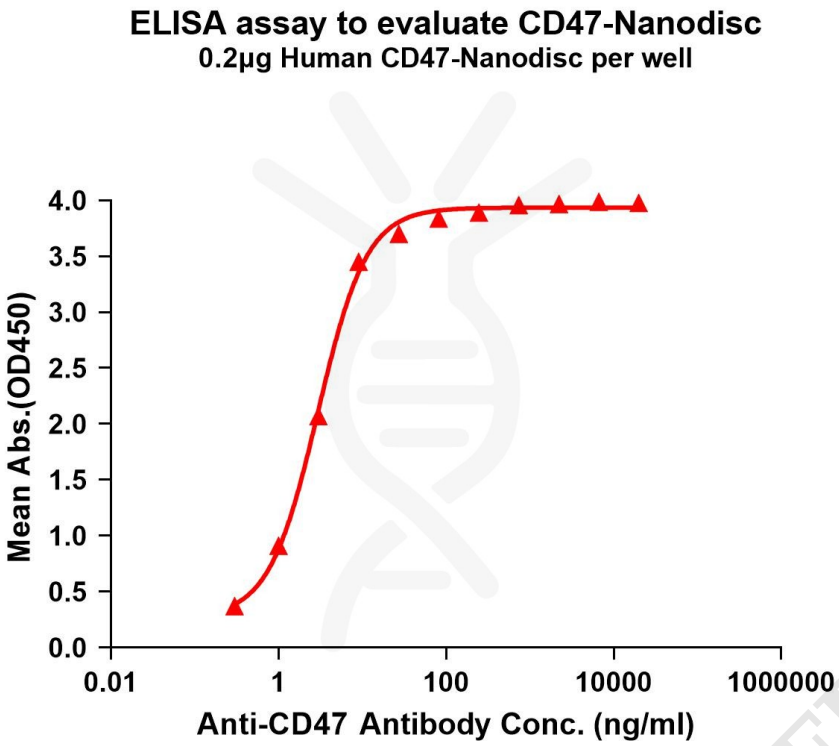

Figure 1. Elisa plates were pre-coated with Flag Tag CD47-Nanodisc (0.2μg/per well). Serial diluted anti-CD47 monoclonal antibody (BME100050) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CD47 monoclonal antibody binding with CD47-Nanodisc is 2.959ng/ml.

Figure 2. Human CD47-Nanodisc, Flag Tag on SDS-PAGE

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

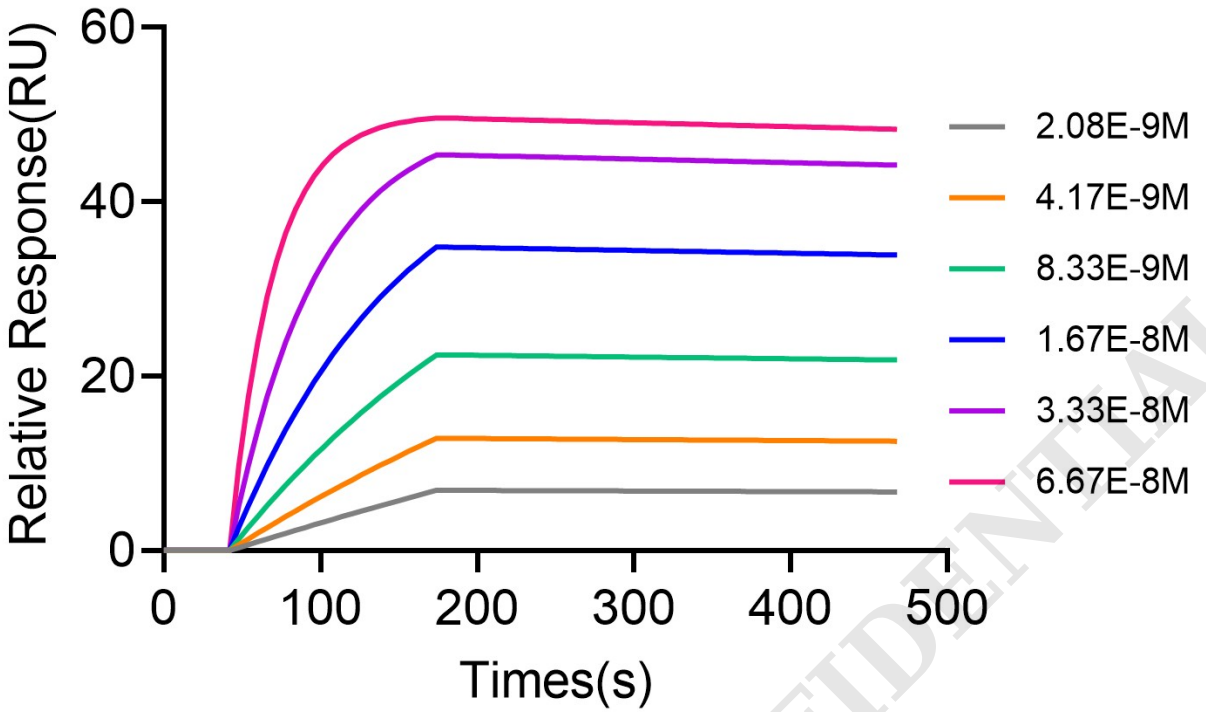

Figure 3. Loaded Human CD47 full length protein-synthetic nanodisc (FLP100039) on Carboxylation Biosensor, can bind Anti-CD47 Magrolimab mAb (BME100050) with an affinity constant of 0.17nM as determined in SPR assay.

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