

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. 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.
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.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
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



ELISA assay to evaluate CD47-Nanodisc 0.2 μ g Human CD47-Nanodisc per well

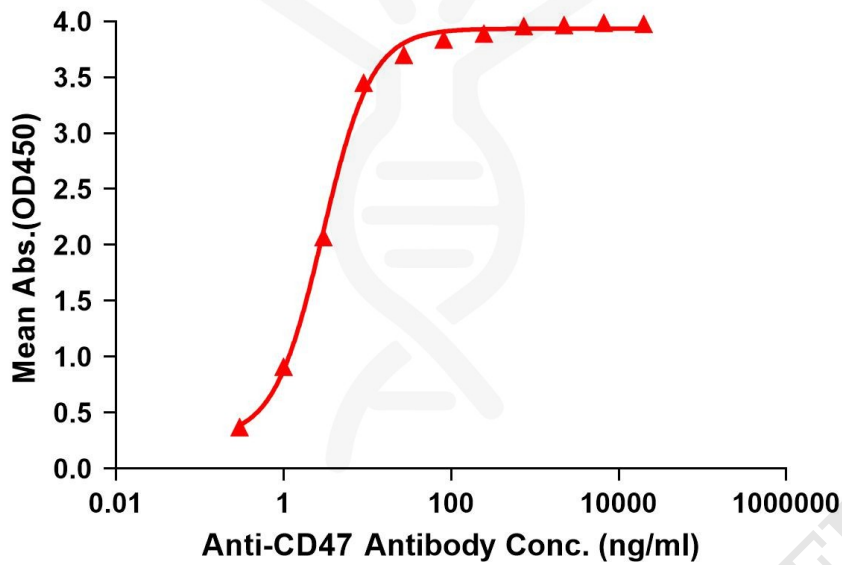


Figure 1. Elisa plates were pre-coated with Flag Tag CD47-Nanodisc (0.2 μ g/per well). Serial diluted anti-CD47 monoclonal antibody (BME100050) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CD47 monoclonal antibody binding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



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



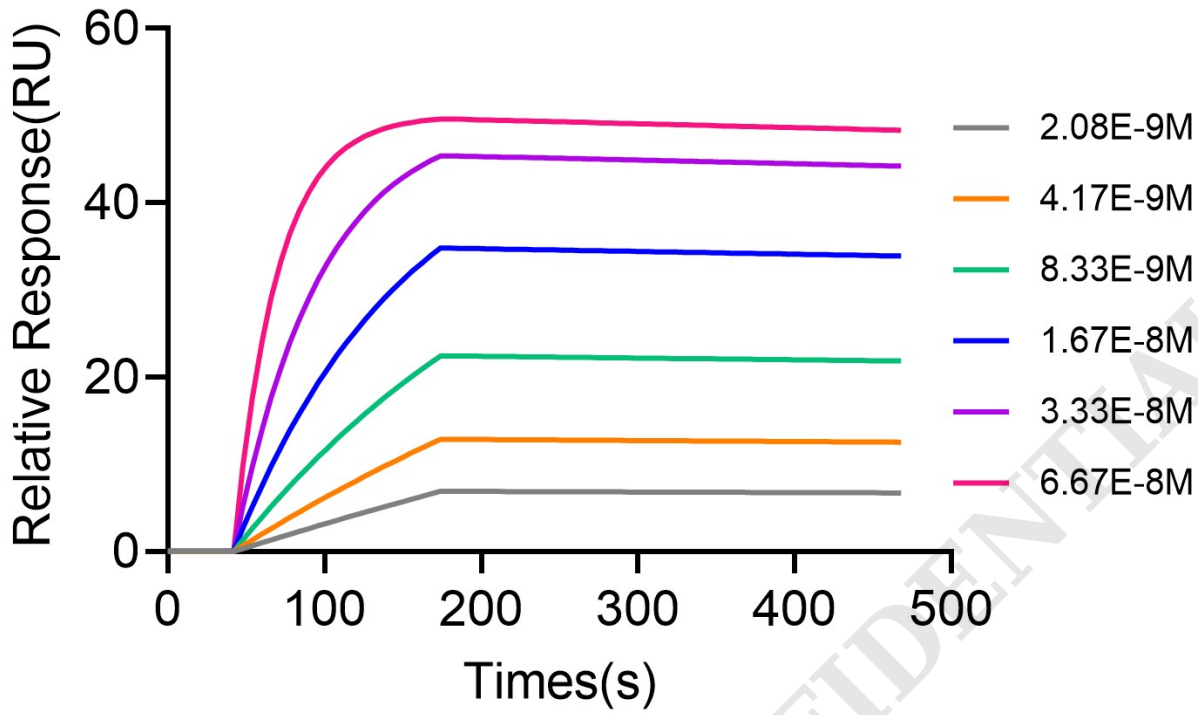


Figure 3. Loaded Human CD47 full length protein-synthetic nanodisc (FLP100039) on Carboxylation Biosensor, can bind Anti-CD47 Magrolimab mAb (BME100050) with an affinity constant of 0.17nM as determined in SPR assay.

