PRODUCT INFORMATION

Target	CD37
Synonyms	GP52-40; TSPAN26
Description	Human CD37 full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	P11049
Expression Host	HEK293
Protein Families	Transmembrane
Protein Pathways	Hematopoietic cell lineage
Molecular Weight	The human full length CD37 protein has a MW of 31.7 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 pH lower than 6.5 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.
Background	The protein is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface glycoprotein that is known to complex with integrins and other transmembrane 4 superfamily proteins. It may play a role in T-cell-B-cell interactions. Alternate splicing results in multiple transcript variants encoding different isoforms.
Usage	Research use only

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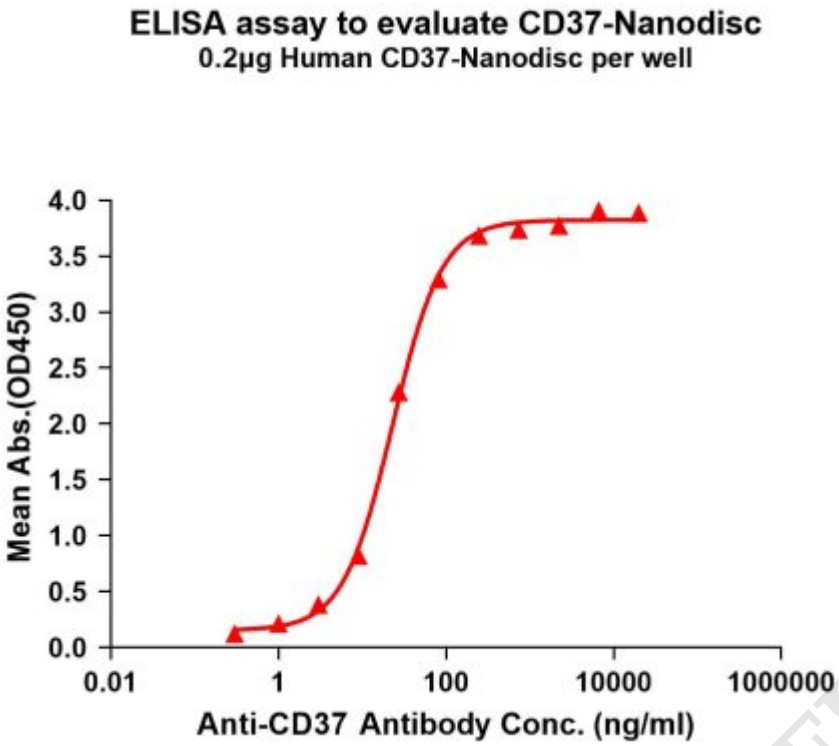

Figure1. Elisa plates were pre-coated with Flag Tag CD37-Nanodisc (0.2μg/per well). Serial diluted anti-CD37 monoclonal antibody (BME100046) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CD37 monoclonal antibody binding with CD37-Nanodisc is 23.06ng/ml.

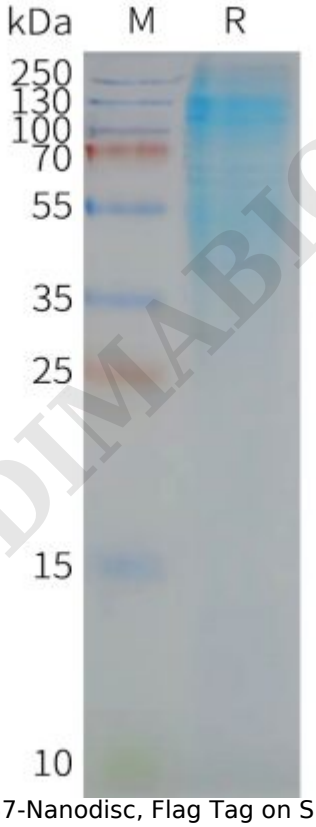

Figure2. Human CD37-Nanodisc, Flag Tag on SDS-PAGE

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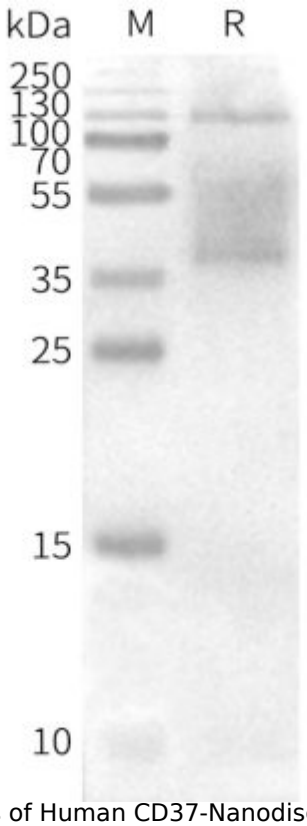

Figure3. WB analysis of Human CD37-Nanodisc with anti-CD37 monoclonal antibody (BME100046), followed by Goat Anti-Human IgG HRP at 1/5000 dilution

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