Cat. No. FLP100499B



PRODUCT INFORMATION

Tag C-Flag&Avi Tag

CD19 Target

Synonyms B4: CVID3

Biotinylated Human CD19 full length protein-Description

synthetic nanodisc

Delivery In Stock **Uniprot ID** P15391 **Expression Host HEK293**

Protein Families Transmembrane

Protein Pathways B Cell Receptor Signaling Pathway

The human full length CD19 Protein has a MW of **Molecular Weight**

65.9 kDa.

Formulation & Reconstitution

Storage & Shipping

Background

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.

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.

This gene encodes a member of the

immunoglobulin gene superfamily. Expression of this cell surface protein is restricted to B cell lymphocytes. This protein is a reliable marker for pre-B cells but its expression diminishes during terminal B cell differentiation in antibody secreting plasma cells. The protein has two N-terminal extracellular Ig-like domains separated

by a non-Ig-like domain, a hydrophobic

transmembrane domain, and a large C-terminal cytoplasmic domain. This protein forms a

complex with several membrane proteins including complement receptor type 2 (CD21) and tetraspanin (CD81) and this complex reduces the

threshold for antigen-initiated B cell activation. Activation of this B-cell antigen receptor complex activates the phosphatidylinositol 3-kinase signalling pathway and the subsequent release of intracellular stores of calcium ions. This protein is a target of chimeric antigen receptor (CAR) T-cells used in the treatment of lymphosistic leukemia. Mutations in this gene are associated with the disease common variable immunodeficiency 3 (CVID3) which results in a failure of B-cell differentiation and impaired secretion of immunoglobulins. CVID3 is characterized by

hypogammaglobulinemia, an inability to mount an antibody response to antigen, and recurrent bacterial infections. Alternative splicing results in multiple transcript variants encoding distinct

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isoforms. [provided by RefSeq, Jul 2020] **Usage** Research use only

Conjugate Biotinylated

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Biotinylated Human CD19 full length protein-synthetic nanodisc ELISA

0.2 µg of Biotinylated Human CD19-Nanodisc, Flag Tag per well

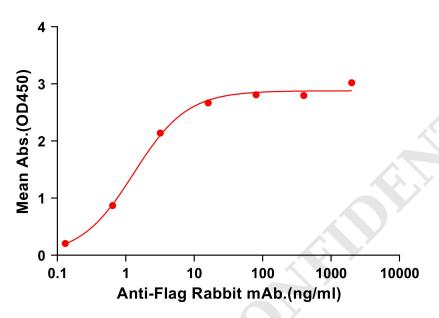
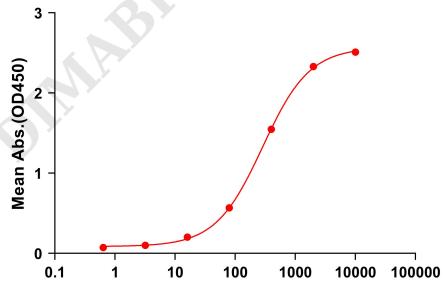


Figure 1. ELISA plate pre-coated by 2 μ g/mL (100 μ L/well) Biotinylated Human CD19 full length protein-synthetic nanodisc (FLP100499B) can bind Anti-Flag Rabbit mAb in a linear range of 0.13-16 ng/mL.

Biotinylated Human CD19 full length protein-synthetic nanodisc ELISA

0.1 µg of Streptavidin per well



Biotinylated Human CD19 full length protein-synthetic nanodisc.(ng/ml)

Figure 2. ELISA plate pre-coated by 1 μ g/mL (100 μ L/well) Streptavidin can bind Biotinylated Human CD19 full length protein-synthetic nanodisc (FLP100499B) in a linear range of 80-2000 ng/mL. In order to specifically detect FLP100499B, Anti-Flag Rabbit antibody was used as detection antibody.

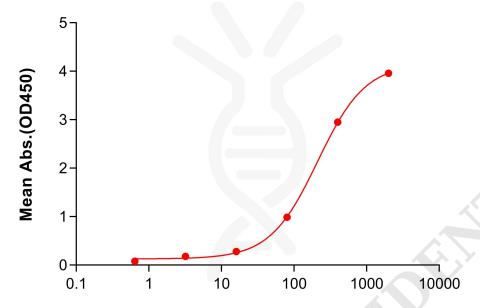
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Biotinylated Human CD19 full length protein-synthetic nanodisc ELISA

0.2 μg of Anti-Flag Rabbit mAb per well



Biotinylated Human CD19 full length protein-synthetic nanodisc.(ng/ml)

Figure 3. ELISA plate pre-coated by 2 μ g/mL (100 μ L/well) Anti-flag Rabbit mAb can bind Biotinylated Human CD19 full length protein-synthetic nanodisc (FLP100499B) in a linear range of 80-2000 ng/mL. In order to specifically detect FLP100499B, HRP Conjugated Streptavidin was used as detection antibody.

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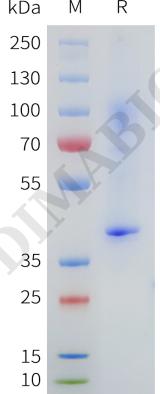


Figure 4. Biotinylated Human CD19-Nanodisc, Flag Tag on SDS-PAGE

