

PRODUCT INFORMATION

CD38 Target

Synonyms CD38;T10;cADPr hydrolase 1

Recombinant human CD38 protein with C-**Description**

terminal human Fc and 6×His tag

Delivery In Stock **Uniprot ID** P28907 **Expression Host HEK293**

Tag C-Human Fc and 6×His Tag

Molecular

Purity

Background

CD38(Val43-Ile300) hFc(Glu99-Ala330) 6×His tag Characterization

The protein has a predicted molecular mass of **Molecular Weight** 70-72 kDa after removal of the signal peptide.

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before

Formulation & lyophilization. Please see Certificate of Analysis Reconstitution

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). Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

CD antigen CD38 is also known as ADP-ribosyl cyclase 1, which belongs to the ADP-ribosyl cyclase family. CD38 is expressed at high levels in pancreas, liver, kidney, brain, testis, ovary,

placenta, malignant lymphoma and neuroblastoma. CD38 is a multifunctional

ectoenzyme that catalyzes the synthesis and hydrolysis of cyclic ADP-ribose (cADPR) from NAD to ADP-ribose. These reaction products are essential for the regulation of intracellular Ca2. The loss of CD38 function is associated with

impaired immune responses, metabolic disturbances, and behavioral modifications. The CD38 protein is a marker of cell activation. It has been connected to HIV infection, leukemias,

myelomas, solid tumors, type II diabetes mellitus and bone metabolism. CD38 has been used as a

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prognostic marker in leukemia.

Usage Research use only Conjugate Unconjugated





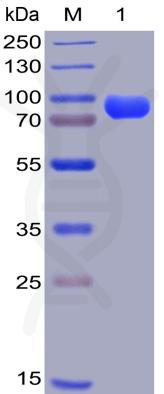


Figure 1. Human CD38, hFc-His Tag on SDS-PAGE under reducing condition.

Human CD38, hFc-His Tagged protein ELISA

0.2 µg Human CD38, hFc-His Tagged protein per well

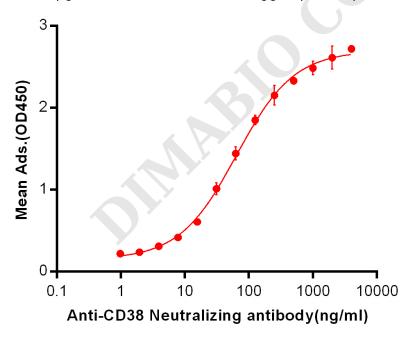


Figure 2. ELISA plate pre-coated by 2 μ g/ml (100 μ l/well) Human CD38, hFc-His tagged protein (PME100004) can bind Anti-CD38 Neutralizing antibody BME100004 in a linear range of 0.98-64.14 ng/ml.

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