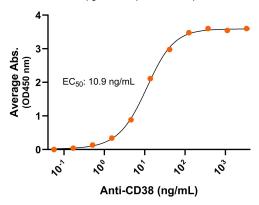


Human CD38 Protein Dimer, His-Avi Tag Product Code: CSP-24096-03 For Research Use Only (RUO)

Bioactivity – Antibody Binding

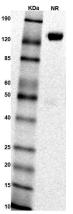
Human CD38-His-Avi dimer, ELISA

0.2µg of CD38 protein dimer per well



Immobilized human CD38 protein dimer, His-Avi tag (Cat. No. CSP-24096-03) at 2 μ g/mL (100 μ L/well) can bind anti-human CD38 polyclonal antibody with half maximal effective concentration (EC50) range of 5.4-21.8 ng/mL (QC tested).

SDS-PAGE



MW: Molecular Weight marker reduced condition NR: CD38 dimer under non-reduced condition

The migration range of the heterodimer protein with glycosylation under non-reducing conditions is between 120 and 190 kDa on SDS PAGE.



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Expression Host

HEK293T

Protein Name

CD38

Purity

Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition

Alternate Name(s)

cyclic ADP ribose hydrolase, ADPRC1, ADPRC 1

Protein Construct

CD38 dimer protein contains the CD38 extracellular domain (UniProt# P28907) fused with a proprietary cisdimer motif followed by a tandem His-Avi tag at the Cterminus. Expressed in HEK293T cell line.

Amino Acid Range

1: V43-I300

SDS-Page Molecular Weight

80 kDa. The migration range of the heterodimer protein with glycosylation under non-reducing conditions is between 120 and 190 kDa on SDS PAGE.

Formulation

0.22µm filtered PBS, pH 7.4

Shipping Conditions

Frozen Dry Ice

Stability & Storage

-80°C

Background

Human Cluster of Differentiation 38 (CD38), also known as cyclic ADP ribose hydrolase, is a glycoprotein found mainly on plasma B cells and natural killer cells. CD38 naturally forms homodimers on the cell surface and functions as an ectoenzyme and as a receptor. CD38 serves as a major regulator of NAD+ levels using its extracellular domain to catalyze the synthesis of ADP ribose (ADPR) and cyclic ADP-ribose (cADPR) from NAD+. CD38 interacts with CD31 on the surface of T cells to activate the production of a variety of cytokines. CD38 is often overexpressed in cancers including multiple myeloma and NK-T cell lymphomas, contributing to cancer cell proliferation, migration, and survival. CD38 expressed on immune cells and airway smooth muscle cells also plays an important role in asthma by influencing inflammation and airway hyperresponsiveness. CD38 is an emerging therapeutic target for several cancers as well as asthma.