

Datasheet for ABIN2180767

CD38 Protein (AA 43-300) (His tag)[Go to Product page](#)

2 Images

1 Publication

Overview

Quantity:	50 µg
Target:	CD38
Protein Characteristics:	AA 43-300
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD38 protein is labelled with His tag.

Product Details

Sequence:	AA 43-300
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 30.7 kDa. The protein migrates as 30-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	CD38
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Target Details

Abstract: [CD38 Products](#)

Background: 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 prognostic marker in leukemia.

Molecular Weight: 30.7 kDa

NCBI Accession: [NP_001766](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: 50 mM MES, 100 mM NaCl, pH 6.5

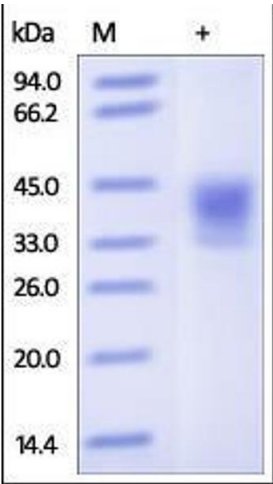
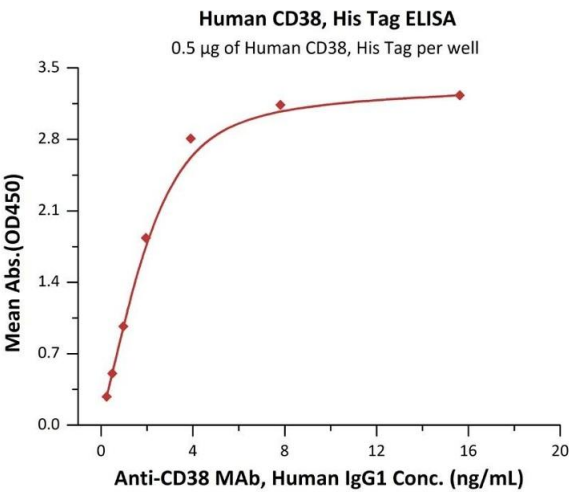
Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C

Storage Comment: No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C-8 °C), After reconstitution under sterile conditions for 1 month (4 °C-8 °C) or 3 months (-20 °C to -70 °C).

Publications

Product cited in: Mettler Izquierdo, Varela, Park, Collarini, Lu, Pramanick, Rucker, Lopalco, Etches, Harriman: "High-efficiency antibody discovery achieved with multiplexed microscopy." in: **Microscopy (Oxford, England)**, Vol. 65, Issue 4, pp. 341-52, (2018) ([PubMed](#)).



ELISA

Image 1. Immobilized Human CD38, His Tag (ABIN2180767,ABIN2180766) at 5 µg/mL (100 µL/well) can bind A MAb, Human IgG1 with a linear range of 0.2-4 ng/mL (QC tested).

SDS-PAGE

Image 2.