

Datasheet for ABIN7274142

CD38 Protein (AA 43-300) (His tag)**4** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CD38
Protein Characteristics:	AA 43-300
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD38 protein is labelled with His tag.

Product Details

Purpose:	Human CD38 Protein
Sequence:	Val43-Ile300
Characteristics:	Recombinant Human CD38 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Val43-Ile300.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human CD38, His Tag at 1 µg/ml (100 µl/Well) on the plate. Dose response curve for Anti-CD38 Antibody, hFc Tag with the EC50 of 28 ng/ml determined by ELISA. The affinity constant of 0.23 µM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

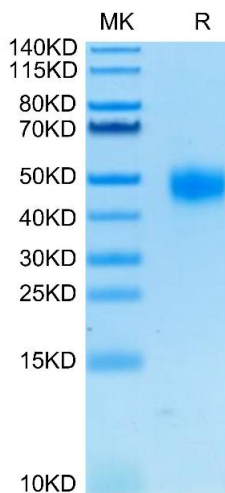
Target:	CD38
Abstract:	CD38 Products
Background:	CD38 (cluster of differentiation 38), also known as cyclic ADP ribose hydrolase, is a transmembrane glycoprotein found on the surface of some immune cells including plasma cells, activated or immature T and B cells, monocytes, and natural killer cells. CD38 participates in cell adhesion, signal transduction and calcium signaling.
Molecular Weight:	30.7 kDa. Due to glycosylation, the protein migrates to 45-58 kDa based on Tris-Bis PAGE result.

Application Details

Restrictions:	For Research Use only
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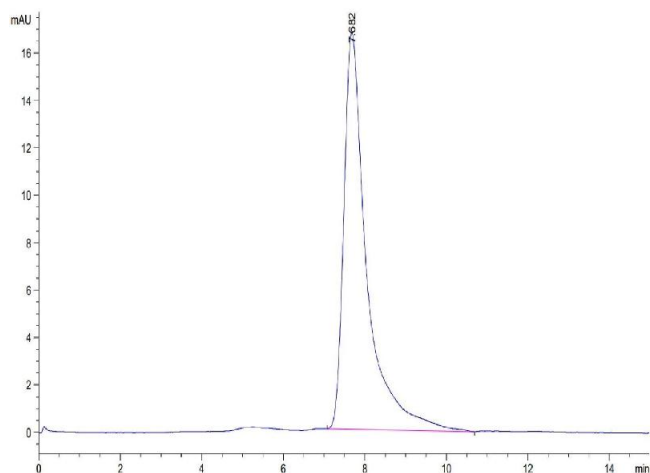
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



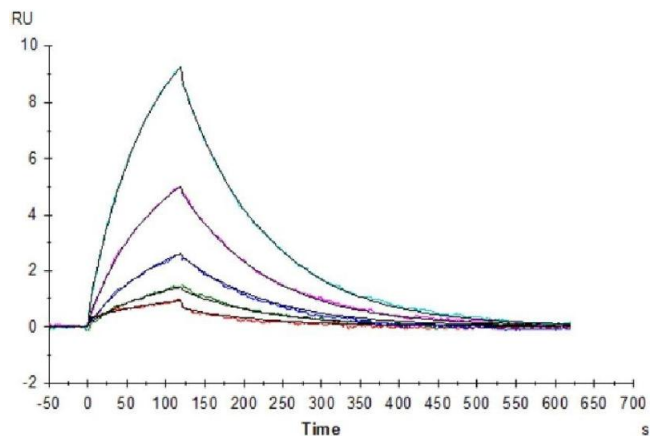
SDS-PAGE

Image 1. Human CD38 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human CD38 is greater than 95 % as determined by SEC-HPLC.



Surface Plasmon Resonance

Image 3. Anti-CD38 Antibody captured on Protein A chip, can bind Human CD38, His Tag with an affinity constant of 0.23 μ M as determined in a SPR assay (Biacore T200).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7274142.