

Datasheet for ABIN7194833

CD38 Protein (His tag)[Go to Product page](#)**1** Image

Overview

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

Product Details

Purpose:	Recombinant Mouse CD38 Protein (His Tag)(Active)
Sequence:	Leu 45-Thr 304
Characteristics:	A DNA sequence encoding the extracellular domain of mouse CD38 (NP_031672.2) (Leu 45-Thr 304) was expressed, fused with a C-terminal polyhistidine tag.
Purity:	> 97 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to convert the substrate nicotinamide guanine dinucleotide (NGD+) to cyclic GDPribose. The specific activity is >50,000pmols/min/ug.

Target Details

Target:	CD38
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Target Details

Abstract: [CD38 Products](#)

Background: Background: The cluster of differentiation (CD) system is commonly used as cell markers in immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. Cluster of differentiation 38 (CD38), also known as ADP-ribosyl cyclase, is a glycoprotein found on the surface of many immune cells (white blood cells), including CD4+, CD8+, B and natural killer cells. It shares several characteristics with ADP-ribosyl cyclase 2 CD157. CD38 is a multifunctional ectoenzyme that catalyzes the synthesis and hydrolysis of cyclic ADP-ribose (cADPR) from NAD⁺ to ADP-ribose. It also functions in cell adhesion, signal transduction and calcium signaling. CD38 has been used as a prognostic marker in leukemia. It can also be used to identify plasma cells.

Synonym: cADPr hydrolase 1, CD38 antigen (p45), CD38 antigen, CD38 Molecule, CD38, Cyclic ADP-ribose hydrolase 1, Cyclic ADP-ribose Hydrolase, EC 3.2.2.5, NAD(+) nucleosidase, T10,ADPRC 1-rs1,ADPRC1,Cd38,Cd38-rs1,I-19

Molecular Weight: 31.3 kDa

NCBI Accession: [NP_031672](#)

Application Details

Restrictions: For Research Use only

Handling

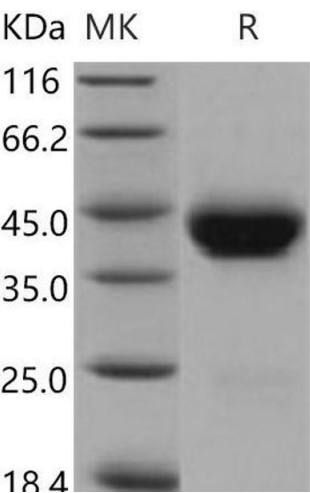
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 20 mM MES, 0.15M NaCl, pH 6.5

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.