



## Synonym

CD38, T10, cADPr hydrolase 1

## Source

Human CD38, Mouse IgG2a Fc Tag(CD8-H5253) is expressed from human 293 cells (HEK293). It contains AA Val 43 - Ile 300 (Accession # [P28907-1](#)).

Predicted N-terminus: Val 43

## Molecular Characterization

CD38(Val 43 - Ile 300)	mFc(Glu 98 - Lys 330)
P28907-1	P01863

This protein carries a mouse IgG2a Fc tag at the C-terminus.

The protein has a calculated MW of 56.9 kDa. The protein migrates as 65-70 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 0.01 EU per  $\mu$ g by the LAL method / rFC method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22  $\mu$ m filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

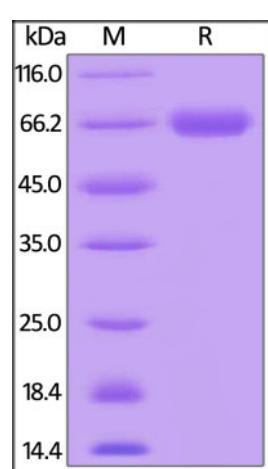
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



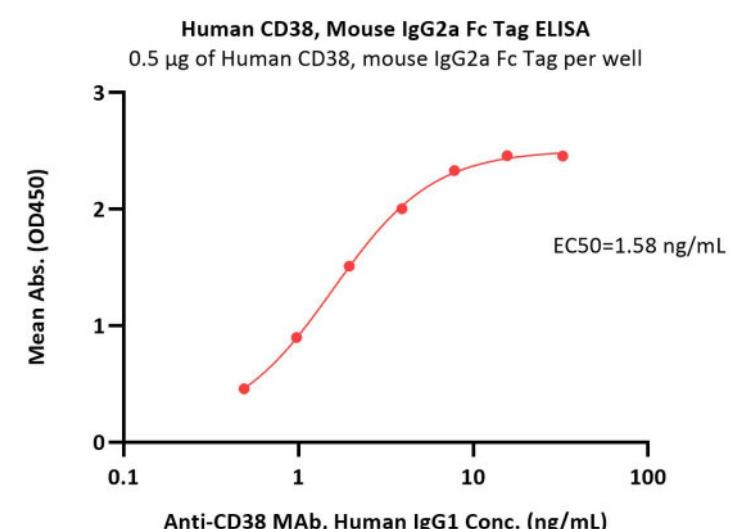
Human CD38, Mouse IgG2a Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA

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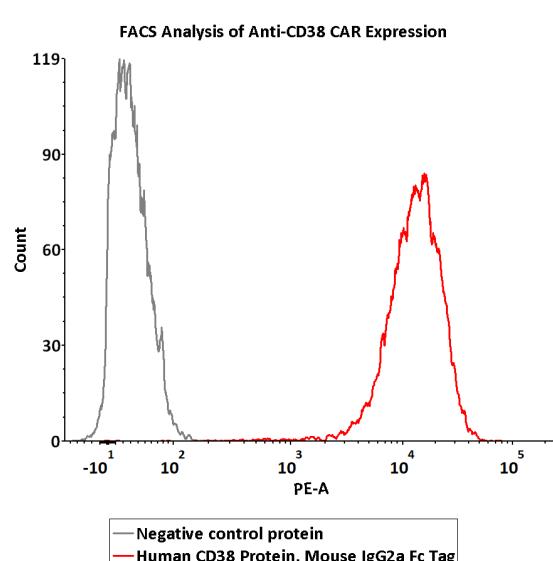


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Immobilized Human CD38, Mouse IgG2a Fc Tag (Cat. No. CD8-H5253) at 5 µg/mL (100 µL/well) can bind Anti-CD38 MAb, Human IgG1 with a linear range of 0.4-2 ng/mL (QC tested).

### Bioactivity-FACS



2e5 of Anti-CD38 CAR-293 cells were stained with 100 µL of 3 µg/mL of Human CD38, Mouse IgG2a Fc Tag (Cat. No. CD8-H5253) and negative control protein respectively, washed and then followed by PE anti-mouse IgG2a Antibody and analyzed with FACS (Routinely tested).

### 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<sup>+</sup> to ADP-ribose. These reaction products are essential for the regulation of intracellular Ca<sup>2+</sup>. 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.

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