

## Recombinant Human CD38 Protein (Val43-Ile300), C-hFc and 6×His-tagged

Cat. No. CD38-504H    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| Product Overview | Recombinant Human CD38 Protein (Val43-Ile300) with C-hFc and 6×His tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Species          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Source           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ProteinLength    | Val43-Ile300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Description      | <p>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.</p> |
| Form             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Molecular Mass   | 70-72 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|-----------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 95% as determined by SDS-PAGE and Coomassie blue staining.                                                       |
| <b>Storage</b>        | Store at -80 centigrade for 12 months (Avoid repeated freezing and thawing)                                        |
| <b>Storage Buffer</b> | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 11 % trehalose is added as protectants before lyophilization. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                     |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CD38 CD38 molecule [ Homo sapiens (human) ]                                                                                                                                                                         |
| <b>Official Symbol</b> | CD38                                                                                                                                                                                                                |
| <b>Synonyms</b>        | CD38; CD38 molecule; CD38 antigen (p45); ADP-ribosyl cyclase 1; ADP ribosyl cyclase 1; NAD(+) nucleosidase; cADPr hydrolase 1; cyclic ADP-ribose hydrolase 1; ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase; T10; |
| <b>Gene ID</b>         | 952                                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>     | NM_001775                                                                                                                                                                                                           |
| <b>Protein Refseq</b>  | NP_001766                                                                                                                                                                                                           |
| <b>MIM</b>             | 107270                                                                                                                                                                                                              |
| <b>UniProt ID</b>      | P28907                                                                                                                                                                                                              |

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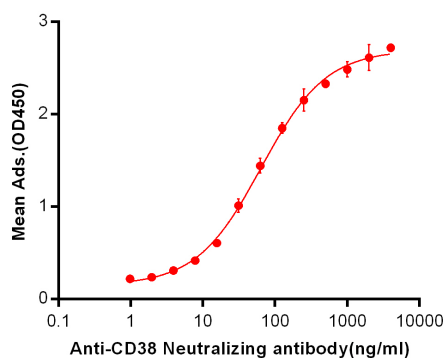
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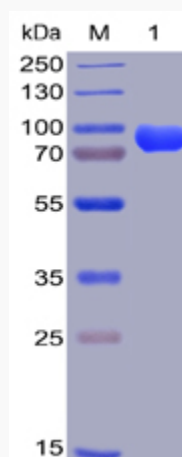
## Activity

### Human CD38, hFc-His Tagged protein ELISA

0.2 µg Human CD38, hFc-His Tagged protein per well



## SDS-PAGE



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