

## Mouse Monoclonal Antibody to CD38

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| <b>Catalogue Number</b>        | sAP-0338  |
| <b>Target Molecule</b>         | <b>Name:</b> CD38<br><b>Aliases:</b> T10; CD38<br><b>MW:</b> 34kDa  |
| <b>Description</b>             | CD38 is a type II integral membrane glycoprotein which is present on early B and T cell lineages and activated B and T cells but is absent from most mature resting peripheral lymphocytes. CD38 is also found on thymocytes, pre-B cells, germinal center B cells, mitogen-activated T cells, monocytes and Ig-secreting plasma cells. CD38 acts as a NAD glycohydrolase in T lymphocytes. On hematopoietic cells CD38 induces activation, proliferation, and differentiation of mature T and B cells and mediates apoptosis of myeloid and lymphoid progenitor cells. In addition to acting as a signaling receptor, CD38 is also an enzyme capable of producing several calcium-mobilizing metabolites, including cyclic adenosine diphosphate ribose (cADPR). CD38 also plays a role in maintaining survival of an invariant NK T (iNKT) cell subset that prefer- |
| <b>Immunogen</b>               | Purified recombinant fragment of human CD38 expressed in E. Coli.   |
| <b>Recitative Species</b>      | Human   |
| <b>Clone</b>                   | MM6E12D;  |
| <b>Size and Concentration</b>  | 100µg/1mg/ml  |
| <b>Supplied as</b>             | Lyophilized Powder from 100µl of Ascitic fluid containing 0.03% sodium azide.   |
| <b>Reconstitution/Storages</b> | Reconstituted with 100µl sterile DI H <sub>2</sub> O, at stored at 4°C or -20°C for short or long term storage  |
| <b>Applications</b>            | ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: 1 to 200 - 1 to 1000  |
| <b>Shipping</b>                | Regular FEDEX overnight shipment (ambient temperature)  |
| <b>Reference</b>               | 1. Trends Biochem Sci. 1992 Dec;17(12):495. ; 2. J Cell Biol. 1999 Sep 6;146(5):1161-72. ; 3. Exp Hematol. 2002 Jun;30(6):582-9. ; 4. Mol Immunol. 2006 Mar;43(7):1029-39. ;  |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the end users! This product is sold for **Research Use Only**