

## anti-human CD38 APC-conjugated

The antibody HIT2 reacts with CD38 (T10), a 45 kDa type II transmembrane glycoprotein strongly expressed mainly on plasma cells and activated T and B lymphocytes; it is an antigenic marker of lymphoid cells.

**CD38** (NAD<sup>+</sup> glycohydrolase) is a type II transmembrane glycoprotein able to induce activation, proliferation and differentiation of mature lymphocytes and mediate apoptosis of myeloid and lymphoid progenitor cells. Another role of CD38 is provided by enzymatic activity of its extracellular part. CD38 acts as NAD<sup>+</sup> glycohydrolase converting NAD<sup>+</sup> into ADP-ribose, as ADP-ribosyl cyclase producing cADPR and as cADPR hydrolase, thus affecting levels of calcium-mobilizing metabolites. ADPR produced by CD38 serves as an important second messenger of neutrophil and dendritic cell migration.

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| <b>Clone:</b>          | HIT2   |
| <b>Isotype:</b>        | Mouse IgG1   |
| <b>Physical state:</b> | Liquid for direct use  |
| <b>Form:</b>           | purified antibody conjugated with cross-linked Allophycocyanin (APC)   |
| <b>Buffer:</b>         | PBS containing 1% BSA and 0.1% sodium azide (pH 7.4)   |
| <b>Storage:</b>        | Store at 4 °C. Do not freeze. Avoid prolonged exposure to light.   |
| <b>Application:</b>    | Flow Cytometry   |
| <b>Reference:</b>      | Cakir-Kiefer C, Muller-Steffner H, Oppenheimer N, Schubert F: implication for CD38 signalling. Biochem J. 2001 Sep 1;358(Pt 2):399-406 |
| <b>Quantity:</b>       | 1.0 ml   |
| <b>Order N°:</b>       | H12168A  |

**Warning:** Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32).

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