

# Purified Anti-Human CD38 Antibody[HB-7]

catalog number: AN003490P

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

## Description

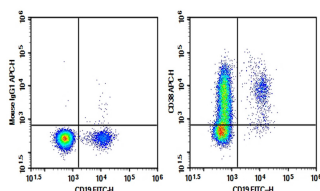
|                     |  |
|---------------------|--|
| <b>Reactivity</b>   | Human  |
| <b>Immunogen</b>    | Recombinant Human CD38 protein   |
| <b>Host</b>         | Mouse  |
| <b>Isotype</b>      | Mouse IgG1, $\kappa$   |
| <b>Clone</b>        | HB-7   |
| <b>Purification</b> | >98%, Protein A/G purified   |
| <b>Conjugation</b>  | Unconjugated   |
| <b>buffer</b>       | Phosphate-buffered solution, pH 7.2, containing 0.05% non-protein stabilizer. Dialyze to completely remove the stabilizer prior to labeling. |

## Applications

## Recommended Dilution

|            |   |
|------------|---|
| <b>FCM</b> | 2 $\mu\text{g/mL}$ ( $1 \times 10^5$ - $5 \times 10^5$ cells) |
|------------|---|

## Data



Human peripheral blood lymphocytes were stained with 0.2  $\mu\text{g}$  Purified Anti-Human CD38 Antibody[HB-7] (Right) and 0.2  $\mu\text{g}$  Mouse IgG1,  $\kappa$  Isotype Control (Left), followed by APC-conjugated Goat Anti-Mouse IgG Secondary Antibody, then anti-Human CD19 FITC-conjugated Monoclonal Antibody.

## Preparation & Storage

|                 |  |
|-----------------|--|
| <b>Storage</b>  | Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles. |
| <b>Shipping</b> | Ice bag  |

## Background

CD38, also known as ADP-ribosyl cyclase, is a Type II integral membrane protein. The enzyme is able to transform NA D(P)+ into three different products with calcium mobilizing ability, cyclic ADP-ribose, NAADP+, and ADP-ribose. CD38 is expressed in B and T lymphocytes, osteoclasts, and in cardiac, pancreatic, liver and kidney cells. Through its production of cyclic ADP-ribose, CD38 modulates calcium-mediated signal transduction in many types of cells, including neutrophils and pancreatic beta cells.

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