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PE/Cyanine7 Anti-Mouse CD38 Antibody[NIMR5]

Catalog Number: E-AB-F1193UH

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

Description

Reactivity Mouse Host Rat

Isotype Rat IgG2a, κ
Clone No. NIMR5

Isotype Control PE/Cyanine7 Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09833H]

Conjugation PE/Cyanine 7

Conjugation Information PE/Cyanine7 is designed to be excited by the Blue (488 nm), Green (532 nm) and

yellow-green (561 nm) lasers and detected using an optical filter centered near 775 nm

(e.g., a 780/60 nm bandpass filter).

Storage Buffer Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

Applications Recommended usage

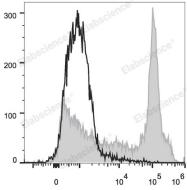
FCM Each lot of this antibody is quality control tested by flow cytometric analysis. Please

check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. We suggest each investigator should titrate the

reagent to obtain optimal results [The recommended concentration is 0.1-1 $\mu g/10^6$ cells

in 100 µL volume].

Data



C57BL/6 murine splenocytes are stained with PE/Cyanine7 Anti-Mouse CD38 Antibody (filled gray histogram) or Rat IgG2a Isotype Control PE (empty black histogram).

Preparation & Storage

Storage Keep as concentrated solution.

This product can be stored at 2-8 $^{\circ}\text{C}$ for 12 months. Please protected from prolonged

exposure to light and do not freeze.

Shipping Ice bag

Antigen Information

Alternate Names 2'-phospho-cyclic-ADP-ribose transferase;ADP-ribosyl cyclase 1;ADPRC 1;CD38;NIM-

R5 antigen

 Uniprot ID
 P56528

 Gene ID
 12494

For Research Use Only

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Background

CD38 is a 42 kD glycoprotein, also known as T10. It is an ADP-ribosyl hydrolase, expressed on B cells, NK cells, a subset of T cells, brain, muscle, and kidney. In mouse, CD38 expression is downregulated on germinal center B cells and plasma cells, whereas this is not the case for humans. By functioning as both a cyclase and a hydrolase, CD38 mediates lymphocyte activation, as well as adhesion and metabolism of cADPR and NAADP. CD31 is the ligand of CD38.