

PE Anti-Mouse CD44 Antibody[NIM-R8]

Catalog Number: AN00917D

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

Description

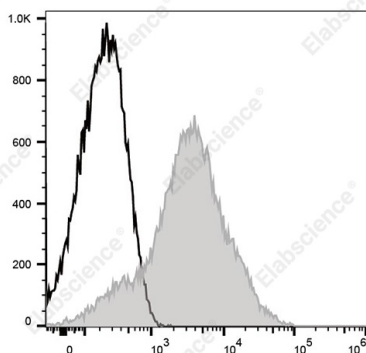
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|--------------------------------|---|
| Reactivity | Mouse |
| Host | Rat |
| Isotype | Rat IgG2a |
| Clone No. | NIM-R8 |
| Isotype Control | PE Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09832D] |
| Conjugation | PE |
| Conjugation Information | PE 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 575 nm (e.g., a 585/42 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. **The amount of the reagent is suggested to be used 5 μL of antibody per test (million cells in 100 μL staining volume or per 100 μL of whole blood).** Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

Data



Staining of C57BL/6 murine splenocytes cells with PE Anti-Mouse CD44 Antibody[NIM-R8] (filled gray histogram) or PE Rat IgG2a, κ Isotype Control (empty black histogram). Total viable cells were used for analysis.

Preparation & Storage

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|-----------------|---|
| Storage | Keep as concentrated solution. This product can be stored at 2-8°C for 24 months. Please protected from prolonged exposure to light and do not freeze. |
| Shipping | Ice bag |

Antigen Information

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|------------------------|--|
| Alternate Names | Hermes;Pgp-1;H-CAM;HUTCH-1;ECMR III;gp85;Ly-24 |
| Uniprot ID | P15379 |
| Gene ID | 12505 |

For Research Use Only

Background

CD44 is a 80-95 kD glycoprotein also known as Hermes, Pgp1, H-CAM, or HUTCH. It is expressed on all leukocytes, endothelial cells, hepatocytes, and mesenchymal cells. As B and T cells become activated or progress to the memory stage, CD44 expression increases from low or mid levels to high levels. Thus, CD44 has been reported to be a valuable marker for memory cell subsets. High CD44 expression on Treg cells has been associated with potent suppressive function via high production of IL-10. CD44 is an adhesion molecule involved in leukocyte attachment to and rolling on endothelial cells, homing to peripheral lymphoid organs and to the sites of inflammation, and leukocyte aggregation.