

A Reliable Research Partner in Life Science and Medicine

# PE/Cyanine7 Anti-Human/Mouse CD44 Antibody[IM7]

Catalog Number: E-AB-F1100UH

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

#### **Description**

Reactivity Human; Mouse

**Host** Rat

lsotype Rat lgG2b, κ

Clone No. IM7

Isotype Control PE/Cyanine7 Rat IgG2b, κ Isotype Control[LTF-2] [Product E-AB-F09843H]

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

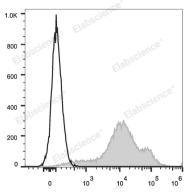
**FCM** Each lot of this antibody is quality control tested by flow cytometric analysis. Please

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<sup>6</sup> cells

in 100 µL volume].

## Data



C57BL/6 murine splenocytes are stained with PE/Cyanine7 Anti-Human/Mouse CD44 Antibody (filled gray histogram). Unstained splenocytes (empty black histogram) are used as control.

### **Preparation & Storage**

**Storage** Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Please protected from prolonged

Rev. V1.6

exposure to light and do not freeze.

**Shipping** lce bag

### **Antigen Information**

Alternate Names MDU2MDU3MIC4;CD44;CD44 antigen;CDw44;Epican;LHR;PGP-1;PGP-l;Phagocytic

glycoprotein 1; Phagocytic glycoprotein I

**Uniprot ID** P15379;P16070

## For Research Use Only

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#### **Elabscience Bionovation Inc.**



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Gene ID **Background**  12505;960

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.

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