

## PE/Cyanine5 Anti-Human/Mouse CD44 Antibody[IM7]

Catalog Number: E-AB-F1100G

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

### Description

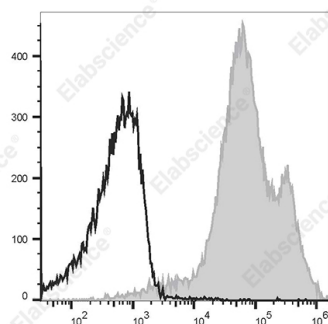
<b>Reactivity</b>	Human;Mouse
<b>Host</b>	Rat
<b>Isotype</b>	Rat IgG2b, κ
<b>Clone No.</b>	IM7
<b>Isotype Control</b>	PE/Cyanine5 Rat IgG2b, κ Isotype Control[LTF-2] [Product E-AB-F09842G]
<b>Conjugation</b>	PE/Cyanine 5
<b>Conjugation Information</b>	PE/Cyanine5 is designed to be excited by the Blue (488 nm), Green (532 nm) and yellow-green (561 nm) lasers and detected using an optical filter centered near 670 nm (e.g., a 690/50 nm bandpass filter).
<b>Storage Buffer</b>	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

### Applications

### Recommended usage

<b>FCM</b>	Each lot of this antibody is quality control tested by flow cytometric analysis. <b>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).</b> Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.
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### Data



C57BL/6 murine splenocytes are stained with PE/Cyanine5 Anti-Human/Mouse CD44 Antibody[IM7] (filled gray histogram) or PE/Cyanine5 Rat IgG2b, κ Isotype Control (empty black histogram).

### Preparation & Storage

<b>Storage</b>	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.
<b>Shipping</b>	Ice bag

### Antigen Information

<b>Alternate Names</b>	MDU2MDU3MIC4;CD44;CD44 antigen;CDw44;Epican;LHR;PGP-1;PGP-I;Phagocytic glycoprotein 1;Phagocytic glycoprotein I
<b>Uniprot ID</b>	P15379;P16070

### For Research Use Only

**Gene ID**

12505;960

**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.