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## Biotin Anti-Human/Mouse CD44 Antibody[IM7]

Catalog Number: E-AB-F1100B

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

**Description** 

Reactivity Human; Mouse

**Host** Rat

**Isotype** Rat IgG2b, κ

Clone No. IM7

**Isotype Control** Biotin Rat IgG2b, κ Isotype Control[LTF-2] [Product E-AB-F09843B]

Conjugation Biotin

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. For flow

cytometric staining, the suggested use of this reagent is  $\leq$  1.0  $\mu$ g per 10<sup>6</sup> cells in 100  $\mu$ L volume or 100  $\mu$ L of whole blood. It is recommended that the reagent be titrated for

optimal performance for each application.

**Preparation & Storage** 

**Storage** Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Do not freeze.

Shipping Ice 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

 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.