Elab Fluor® 700 Anti-Human/Mouse CD44 Antibody[IM7]

Catalog Number: E-AB-F1100M1

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

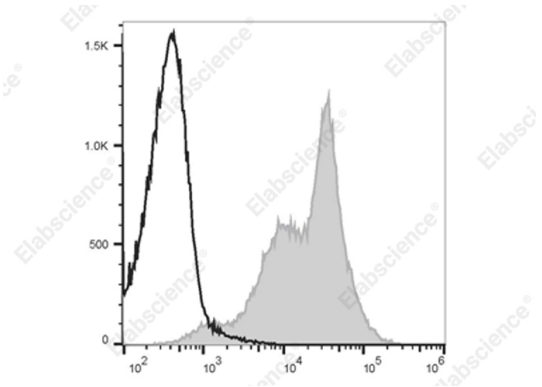
Description

Reactivity	Human;Mouse
Host	Rat
Isotype	Rat IgG2b, κ
Clone No.	IM7
Isotype Control	Elab Fluor® 700 Rat IgG2b, κ Isotype Control[LTF-2] [Product E-AB-F09842M1]
Conjugation	Elab Fluor®700
Conjugation Information	Elab Fluor® 700 is designed to be excited by the Red laser (627-640 nm) and detected using an optical filter centered near 719 nm (e.g., a 725/40 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 with Elab Fluor® 700 Anti-Human/Mouse CD44 Antibody[IM7] (filled gray histogram) or Elab Fluor® 700 Rat IgG2b, κ Isotype Control (empty black histogram). Total viable cells were used for analysis.

Preparation & Storage

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

Alternate Names	CD44 antigen;CD44;CDw44;Epican;Phagocytic glycoprotein 1;PGP-1;Phagocytic glycoprotein I;PGP-I;CD44;LHR;MDU2;MDU3;MIC4
Uniprot ID	P15379;P16070;

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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.

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