

A Reliable Research Partner in Life Science and Medicine

Elab Fluor® 647 Anti-Mouse CD162 Antibody[4RA10]

Catalog Number: E-AB-F1034UM

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

Description

Reactivity Mouse Rat Host

Isotype Rat IgG1, ĸ 4RA10 Clone No.

Isotype Control Elab Fluor[®] 647 Rat IgG1, κ Isotype Control[HRPN] [Product E-AB-F09823M]

Conjugation Elab Fluor®647

Conjugation Information Elab Fluor® 647 is designed to be excited by the Red laser (627-640 nm) and detected

using an optical filter centered near 670 nm (e.g., a 660/20 nm bandpass filter).

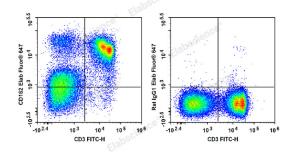
Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer. Storage Buffer

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 μg/10⁶ cells in 100 µL volume].

Data



C57BL/6 murine splenocytes are stained with Elab Fluor® 647 Anti-Mouse CD162 Antibody and FITC Anti-Mouse CD3 Antibody (Left). Splenocytes stained with FITC Anti-Mouse

CD3 Antibody and Elab Fluor® 647 Rat IgG1, κ Isotype Control (Right) 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

exposure to light and do not freeze.

Shipping Ice bag

Antigen Information

CD162;P-selectin glycoprotein ligand 1;PSGL-1;Selectin P ligand;Selplg;PSGL1 **Alternate Names**

Uniprot ID Q62170 Gene ID 20345

For Research Use Only

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Background

The 4RA10 antibody reacts with the N-terminal functional peptide of CD162 (P-selectin glycoprotein ligand-1, PSGL-1), encoded by the Selpl gene. PSGL-1 is expressed on the cell surface as a homodimer of approximately 230 kDa. In the mouse, Selpl mRNA is detected in most tissues, with high levels found in hematopoietic cells, brain, and adipose tissue. Flow cytometric analyses have revealed CD162 expression on bone marrow-derived mast and dendritic cells, splenic leukocytes, platelets, peripheral blood neutrophils, and neutrophil and T-cell lines. PSGL-1 is a ligand for P-selectin (CD62P) and is involved in leukocyte rolling, the migration of leukocytes into inflamed tissues, and responses to vascular injury. It is a sialomucin that must be specifically sialylated, fucosylated, and sulfated to bind P-selectin. There is also evidence that other ligands for PSGL-1 and CD62P may exist. 4RA10 mAb is reported to block the binding of mouse leukocytes to CD62P and CD62L.

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