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# Elab Fluor® Violet 450 Anti-Human/Mouse/Rat CD47 Antibody[MIAP410]

Catalog Number: E-AB-F1016Q

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

#### Description

Reactivity Human; Mouse; Rat

Host Mouse

**Isotype** Mouse IgG1, κ **Clone No.** MIAP410

Isotype Control Elab Fluor® Violet 450 Mouse IgG1, κ Isotype Control[MOPC-21] [Product E-AB-

F09792Q1

**Conjugation** Elab Fluor<sup>®</sup> Violet 450

**Conjugation Information** Elab Fluor<sup>®</sup> Violet 450 is designed to be excited by the violet laser (405 nm) and

detected using an optical filter centered near 450 nm (e.g., a 450/45 nm bandpass filter).

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

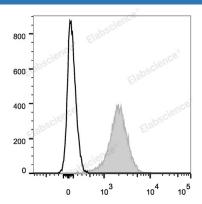
#### Applications Recommended usage

**FCM** 

Data

Each lot of this antibody is quality control tested by flow cytometric analysis. The amount of the reagent is suggested to be used 5  $\mu$ L of antibody per test (million cells in 100  $\mu$ L staining volume or per 100  $\mu$ L of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

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C57BL/6 murine splenocytes are stained with Elab Fluor<sup>®</sup> Violet 450 Anti-Human/Mouse/Rat CD47 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

exposure to light and do not freeze.

Shipping Ice bag

#### **Antigen Information**

Alternate Names Cd47;IAP;Integrin-associated protein;Leukocyte surface antigen CD47

**Uniprot ID** Q08722;Q61735;P97829

**Gene ID** 16423;29364;961

## For Research Use Only

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# Elabscience®

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#### **Background**

CD47, also known as Integrin-Associated Protein (IAP), is a membrane protein of about 50 kD with an IgV-like extracelluluar domain, a five membrane-spanning segment and a short terminal cytoplasmic region. It is widely expressed on many cell types and often associated with beta 3 integrins. It has been reported that CD47 functions as a self marker. Red cells lacking CD47 were rapidly cleared from the bloodstream by splenic macrophages. By binding to SIRPa, CD47 controls hemostatic innate immune functions, such as phagocytosis and cell trafficking.

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