

A Reliable Research Partner in Life Science and Medicine

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

Catalog Number: E-AB-F1016UQ

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<sup>®</sup> Violet 450 Mouse IgG1, κ Isotype Control[MOPC-21] [Product E-AB-

F09793Q1

Conjugation Elab Fluor® Violet 450

**Conjugation Information** Elab Fluor® 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).

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

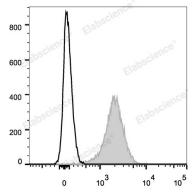
#### **Applications** Recommended usage

**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/10<sup>6</sup> cells

#### in 100 µL volume].

#### Data



C57BL/6 murine splenocytes are stained with Elab Fluor® 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

Q08722;Q61735;P97829 **Uniprot ID** 

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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