

## PE/Cyanine5 Anti-Human/Mouse/Rat CD47 Antibody[MIAP410]

Catalog Number: GFH1016UG

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

### Description

|                         |                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human;Mouse;Rat                                                                                                                                                                                            |
| Host                    | Mouse                                                                                                                                                                                                      |
| Isotype                 | Mouse IgG1, $\kappa$                                                                                                                                                                                       |
| Clone No.               | MIAP410                                                                                                                                                                                                    |
| Isotype Control         | [Product E-AB-F09793G]                                                                                                                                                                                     |
| Conjugation             | PE/Cyanine 5                                                                                                                                                                                               |
| Conjugation Information | PE/Cyanine5 is designed to be excited by the Blue (488 nm), Green (532 nm) and yellow-green (561 nm) lasers and detected using an optical filter centered near 670 nm (e.g., a 690/50 nm bandpass filter). |
| Storage Buffer          | Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide.                                                                                                                                        |

### 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  $\mu\text{g}/10^6$  cells in 100  $\mu\text{L}$  volume].

### Preparation & Storage

|          |                                                                                                                                                           |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage  | Keep as concentrated solution.<br>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

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| Alternate Names | Cd47;IAP;Integrin-associated protein;Leukocyte surface antigen CD47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Uniprot ID      | Q08722;Q61735;P97829                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene ID         | 16423;29364;961                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Background      | CD47, also known as Integrin-Associated Protein (IAP), is a membrane protein of about 50 kD with an IgV-like extracellular 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 SIRP $\alpha$ , CD47 controls hemostatic innate immune functions, such as phagocytosis and cell trafficking. |