

## Biotin Anti-Human CD47 Antibody[CC2C6D4]

**Catalog Number:** E-AB-F1060B

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

### Description

<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Isotype</b>	Mouse IgG1, κ
<b>Clone No.</b>	CC2C6D4
<b>Isotype Control</b>	Biotin Mouse IgG1, κ Isotype Control[MOPC-21] [Product E-AB-F09793B]
<b>Conjugation</b>	Biotin
<b>Storage Buffer</b>	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant.

### Applications

### Recommended usage

<b>FCM</b>	Each lot of this antibody is quality control tested by flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is $\leq 1.0 \mu\text{g}$ per $10^6$ cells in $100 \mu\text{L}$ volume or $100 \mu\text{L}$ of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
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### Preparation & Storage

<b>Storage</b>	Keep as concentrated solution. This product can be stored at 2-8°C for 12 months. Do not freeze.
<b>Shipping</b>	Ice bag

### Antigen Information

<b>Alternate Names</b>	Cd47;IAP;Integrin-associated protein;Leukocyte surface antigen CD47
<b>Uniprot ID</b>	Q08722
<b>Gene ID</b>	961
<b>Background</b>	CD47 also known as Rh-associated protein, gp42, integrin-associated protein (IAP), and neurophilin, is a 42-52 kD member of the immunoglobulin superfamily containing a five-pass transmembrane attachment. Two splice variants have been described in the cytoplasmic tail, the shorter form is expressed in bone-marrow-derived cells, endothelial cells, and fibroblasts while the longer form is expressed by neural tissues. CD47 expression is widely distributed in hematopoietic cells including thymocytes, T cells, B cells, monocytes, platelets, and erythrocytes as well as epithelial cells, endothelial cells, fibroblasts, and neural tissues. CD47 functions as an adhesion molecule and thrombospondin receptor and is non-covalently associated with $\beta 3$ integrins CD51/CD61, CD41/CD61. Thrombospondin is a ligand for CD47; in the absence of CD47 mice show defects in host defense and $\beta 3$ integrin-dependent ligand binding, migration, and cellular activation. CD47 is also part of the Rh complex on erythrocytes.

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