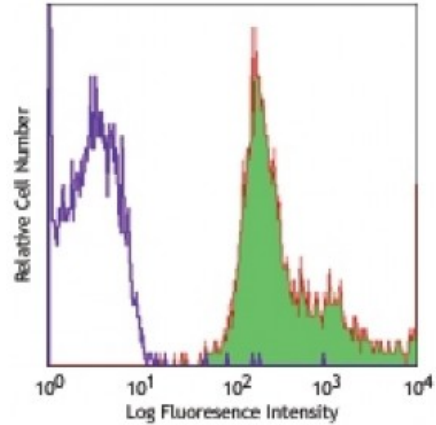


**Biotin anti-human CD47**

**Catalog # / Size:** 2215520 / 100 µg  
**Clone:** CC2C6  
**Isotype:** Mouse IgG1, κ  
**Immunogen:** CCRF-CEM T-cell line  
**Reactivity:** Human  
**Preparation:** The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.  
**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.  
**Concentration:** 0.5



Human peripheral blood lymphocytes stained with biotinylated CC2C6, followed by Sav-PE

**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤2.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** The CC2C6 monoclonal antibody can block the binding of HCD47 antibody to CD47.

**Application References:** 1. Seiffert M, *et al.* 1999. *Blood* 94:3633.

**Description:** CD47 also known as Rh-associated protein, gp42, integrin-associated protein (IAP), and neuropilin, 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 β3 integrins CD51/CD61, CD41/CD61. Thrombospondin is a ligand for CD47; in the absence of CD47 mice show defects in host defense and β3 integrin-dependent ligand binding, migration, and cellular activation. CD47 is also part of the Rh complex on erythrocytes. The CC2C6 antibody recognizes human CD47 and has been shown to be useful for flow cytometry.

**Antigen References:** 1. Anstee DJ, *et al.* 1995. In *Leucocyte Typing V* (Schlossman ed.) Oxford University Press Oxford pp233-234.  
 2. Brown E, *et al.* 1990. *J. Cell Biol.* 111:2785.  
 3. Gao AG, *et al.* 1996. *J. Biol. Chem.* 2