

## PE anti-human CD47

**Catalog # / Size:** 323108 / 100 tests

**Clone:** CC2C6

**Isotype:** Mouse IgG1,  $\kappa$

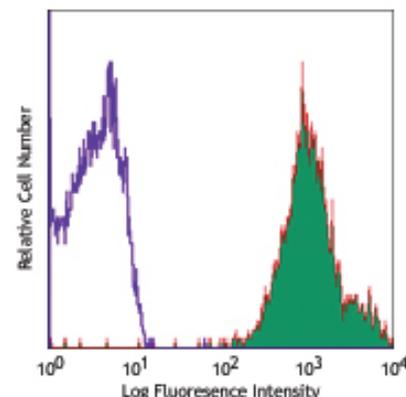
**Immunogen:** CCRF-CEM T-cell line

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with CC2C6 PE

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at [www.biolegend.com/testsize](http://www.biolegend.com/testsize) regarding the test size change.

**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 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. 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.* 271:21.  
4. Lindberg FP, *et al.* 1994. *J. Biol. Chem.* 269:1567.

### Related Products: Product

Cell Staining Buffer

PE Mouse IgG1,  $\kappa$  Isotype Ctrl (FC)

Human TruStain FcX™ (Fc Receptor Blocking Solution)

### Clone

MOPC-21

### Application

FC, ICC, ICFC

FC

FC, ICC, ICFC



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