# Purified Anti-Human CD47 Antibody[CC2C6D4]

catalog number: E-AB-F1060A



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

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Reactivity Human Host Mouse

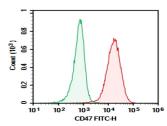
 $\begin{tabular}{lll} \textbf{Isotype} & Mouse IgGl, \kappa \\ \textbf{Clone} & CC2C6D4 \\ \textbf{Conjugation} & Unconjugated \\ \end{tabular}$ 

buffer PBS, pH 7.2. Contains 0.05% proclin 300.

## **Applications** Recommended Dilution

FCM  $2 \mu g/mL(1 \times 10^5 - 5 \times 10^5 \text{ cells})$ 

#### Data



Human peripheral blood lymphocytes were stained with 0.2 μg Purified Anti-Human CD47 Antibody[CC2C6D4] (Right) and 0.2 μg Mouse IgG1, κ Isotype Control (Left), followed by FITC-conjugated Goat Anti-Mouse IgG Secondary Antibody.

#### **Preparation & Storage**

Storage Storage Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze /

thaw cycles.

Shipping Ice bag

### Background

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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