

**Manufacturer/Supplier:**

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**Product name:** Anti-Human CD45 Monoclonal  
Antibody(APC/Cyanine7 Conjugated)

**Catalog:** DL21707F

**Synonyms:** Receptor-type tyrosine-protein phosphatase  
C, Ptpcr, L-CA, Ly-5, T200, CD45

**Background:** CD45 is a 180 - 240 kD single chain type I membrane glycoprotein also known as leukocyte common antigen (LCA) and T200. It is a tyrosine phosphatase expressed on the plasma membrane of all hematopoietic cells, except erythrocytes or platelets. CD45 is a signaling molecule that regulates a variety of cellular processes including cell growth, differentiation, cell cycle, and oncogenic transformation. CD45 plays a critical role in T and B cell antigen receptor-mediated activation by

dephosphorylating substrates including p56Lck, p59Fyn, and other Src family kinases. CD45 non-covalently associates with lymphocyte phosphatase-associated phosphoprotein (LPAP) on T and B lymphocytes. CD45 has been reported to bind galectin-1 and to be associated with several other cell surface antigens including CD1, CD2, CD3, and CD4.

**Form:** Liquid

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

**Size:** 20 Tests/50 Tests/100 Tests/200 Tests

**Host:** Mouse

**Reactivity:** Human

**Application:** FCM

**Concentration:**

**Conjugation:** APC/Cyanine7

**SwissProt:** P08575

**Buffer:** PBS with 0.05% Proclin300, 1% BSA

### Recommended Use:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. The amount of the reagent is suggested to be used 5  $\mu$ L of antibody per test (million

cells in 100 µl staining volume or per 100 µl of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

**Data:**

Human peripheral blood lymphocytes are stained with Anti-Human CD45 Monoclonal Antibody(APC/Cyanine7 Conjugated)(filled gray histogram). Unstained lymphocytes (empty black histogram) are used as control.

**Storage:**

Keep as concentrated solution.

Store at 2~8°C and protected from prolonged exposure to light. Do not freeze.

This product is guaranteed up to one year from purchase.