

**Manufacturer/Supplier:**

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

**Catalog:** DL20587F

**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 IgG2a,  $\kappa$

**Size:**

**Host:** Mouse

20Tests/50Tests/100Tests/200Test  
s

**Reactivity:** Human

**Application:** FCM

**Concentration:**

**Conjugation:** PE/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  $\mu$ l staining volume or per 100  $\mu$ l 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(PE/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.