

**Manufacturer/Supplier:**

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**Product name:** Anti-Human CD16 Monoclonal  
Antibody(PE/Cyanine7 Conjugated)

**Catalog:** DL20207F

**Synonyms:** Low affinity immunoglobulin gamma Fc region  
receptor III-A, FCGR3A, CD16a antigen, Fc-gamma  
RIII-alpha, Fc-gamma RIII, Fc-gamma  
RIIIa, FcRIII, FcRIIIa, FcR-10, IgG Fc receptor  
III-2, CD16a

**Background:** CD16 is known as low affinity IgG receptor III  
(FcγRIII). It is expressed as two distinct forms  
(CD16a and CD16b). CD16a (FcγRIIIA) is a 50-65  
kD polypeptide-anchored transmembrane protein. It  
is expressed on the surface of NK cells, activated  
monocytes, macrophages, and placental trophoblasts  
in humans. CD16b (FcγRIIIB) is a 48 kD

glycosylphosphatidylinositol (GPI)-anchored protein. Its extracellular domain is over 95% homologous to that of CD16a, and it is expressed specifically on neutrophils. CD16 binds aggregated IgG or IgG-antigen complex which functions in NK cell activation, phagocytosis, and antibody-dependent cell-mediated cytotoxicity (ADCC).

**Form:** Liquid

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

**Size:**

**Host:** Mouse

20Tests/50Tests/100Tests/200Test

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**Reactivity:** Human

**Application:** FCM

**Concentration:**

**Conjugation:** PE/Cyanine7

**SwissProt:** P08637

**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 CD16 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.