

## APC anti-human CD16 Antibody

C-0018-41 /25Tests

Catalog# / Size

Description

C-0018-42 /100Tests

Clone KEL-CD16-001

Regulatory Status RUO

Other Names FcyRIII, IGFR3, FCG3, FCGR3, FCGRIII, Fc gamma receptor, Fc gamma receptor 3, CD16a

Isotype human IgG1,  $\kappa$ 

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, a

subset of T cells and placental trophoblasts in humans. CD16b (FcyRIIIB) 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).

## **Product Details:**

Verified Reactivity Human

Antibody Type Monoclonal

Host Species Mouse

Immunogen NK cell-enriched fraction from human peripheral blood.

Formulation Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)

**Preparation** The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.

Concentration Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our

Certificate of Analysis online tool.)

Storage & Handling The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged

exposure to light. Do not freeze.

**Application** FC - Quality tested

Recommended Usage Each lot of this antibody is quality control tested by immunofluorescent staining with flow

cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5  $\mu l$  per million cells

in 100 µl staining volume or 5 µl per 100 µl of whole blood.

Excitation Laser Red Laser (633 nm)

Application Notes The epitope recognized by clone KEL-CD16-001 is in the first membrane distal Ig-like domain of the

CD16 molecule

Donor variability has been observed for clone KEL-CD16-001 staining1, especially on granulocytes.



## **Antigen Details**

Ig superfamily, transmembrane form (50-65 kD) or GPI-linked form (48 kD) Structure

NK cells, activated monocytes, macrophages, neutrophils and a subset of T cells Distribution

Low affinity IgG Fc receptor, phagocytosis, ADCC **Function** 

IgG Fc receptor III (FcγRIII) Ligand/Receptor

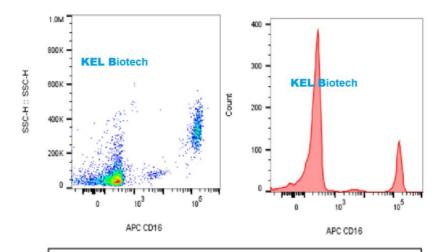
Macrophages, Monocytes, Neutrophils, NK cells, T cells **Cell Type** 

Immunology, Innate Immunity **Biology Area** CD Molecules, Fc Receptors **Molecular Family** 

Gene ID <u>2214</u>

<u>2215</u>

## **Product Data:**



Typical results from human peripheral blood lymphocytes stained either withKEL-CD16-001 APC used at 5 µL/test (filled histogram)