

AM03136FC-L

Monoclonal Antibody to CD16/CD32 - FITC

Alternate names:

CD16a, FCG3, FCGR3A, Fc gamma receptor IIB, Fc-gamma RIII, Fc-gamma RIII-alpha, Fc-gamma RIIIa, Fc-gamma-RIIB, FcR mouse Seroblock, FcRII, FcRIII, FcRIIIa, Fcgr2, IGFR3, IgG Fc receptor III-2, Low affinity immunoglobulin gamma Fc region receptor III-A, Low affinity immunoglobulin gamma Fc region receptor III-B, Ly-17

Quantity:

0.3 mg

Concentration:

0.1 mg/ml

Background:

The lymphocyte Fc-gamma Receptors recognize the Fc portion of IgG, presented either as immune complexes or as free antibody. The different classes of receptors are distinct because of varying size, tissue distribution and affinity for IgGs. The Fc type II receptor is expressed on a wide variety of cells including B cells, hematopoietic cells, monocyte/macrophages, neutrophils, platelets, Langerhans cells, eosinophils, basophils, trophoblasts, and endothelial cells of the placenta.

The Fc-gamma type III receptors are higher affinity than the type II and are expressed on macrophages, NK cells and neutrophils. Both types of receptors can be expressed on the same cell and in varying ratios. The receptors are constitutively expressed, although cytokines and lymphokines can modulate their expression. Besides identifying Fc-gammaR+ cells, monoclonal antibodies to the Fc-gammaII/III receptor have been used to block Fc receptor binding of IgG, Fc-mediated signal transduction and effector functions, clearance of immune complexes and to attenuate infection by organisms dependent on Fc-gamma R for parasitic invasion.

Host / Isotype:

Rat / IgG2a

Clone:

KT1632

Format:

State: Liquid purified IgG fraction.

Buffer System: PBS containing 0.02% Sodium Azide as preservative and EIA grade BSA as a stabilizing protein.

Label: FITC

Applications:

Flow Cytometry: 1 µg is the maximum amount of reagent required per 10e6 cells.

Suitable for use in single, dual or three colour Flow Cytometry.

Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: BALB/c

Cell Concentration: 1x10e6 cells per tests

Antibody Concentration Used: 0.1 µg/10e6 cells

Isotypic Control: FITC Rat IgG2a.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody reacts with Mouse CD32/16 (Fcγ III/II receptors) which are Fc receptors present on macrophages, NK cells, monocytes, lymphocytes, and dendritic cells. The antibody can be used to block Fc Receptor mediated binding of immunoglobulins to the FcγIII and FcγII receptors.

Species: Mouse.

Other species not tested.

Storage: Store the antibody undiluted at 2-8°C for one month ore (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

Pictures: Cell Source: Balb/c Peritoneal Macrophages labeled with Cat.-No. AM03136FC including isotypic control. Percentage of cells stained above control: 99%

