

CD16 monoclonal antibody

Catalog: MB65757

Host: Mouse

Reactivity: Human

BackGround:

CD64 (FcγRI), CD32 (FcγRII), and CD16 (FcγRIII) are three classes of the immunoglobulin superfamily. CD64 has a high affinity for IgG with three Ig-like domains while CD32 and CD16 have low affinities with two Ig-like domains. Two genes encode CD16-A and CD16-B resulting only in a 6 amino acid difference in their ectodomains. However, CD16-A has a transmembrane anchor versus CD16-B, which has a glycosylphosphatidylinositol. CD64, CD32, and CD16 are membrane glycoproteins that are expressed by all immunologically active cells and trigger various immune functions (activate B cells, phagocytosis, antibody-dependent cellular cytotoxicity, immune complex clearance, and enhancement of antigen presentation). CD16 cross-linking induces tyrosine phosphorylation (Tyr394) of Lck in NK cells. CD32 has tyrosine-based activation motifs in the cytoplasmic domain in contrast to CD16, which associates with molecules possessing these motifs.

Product:

Mouse IgG1. Liquid in PBS, pH 7.3, and 0.02% sodium azide.

Molecular Weight:

~ 26 kDa

Swiss-Prot:

O75015

Purification&Purity:

The monoclonal antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

IF (1/50 - 1/200)

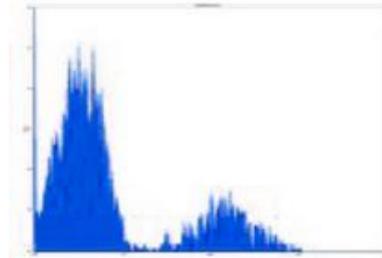
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes human CD16

DATA:



Flow cytometric analysis of human peripheral blood lymphocytes using Anti-CD16 Antibody, followed by anti-mouse IgG PE.

Note:

For research use only, not for use in diagnostic procedure.

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