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Monoclonal Antibody to CD16 - FITC

Alternate names: CD16A, FCG3, FCGR3, FCGR3A, Fc-gamma RIII, Fc-gamma RIII-alpha, Fc-gamma RIIIa, FcR-10, FcRIII, FcRIIIa, IGFR3, IgG Fc receptor III-2, Low affinity immunoglobulin gamma Fc region receptor III-A

Catalog No.: AM01051FC-N

Quantity: 0.1 mg

Concentration: 0.1 mg/ml

Background: CD16 (FcgammaRIII) serves as a low affinity IgG receptor. Human CD16 is expressed in two forms CD16a and CD16b. CD16a is a transmembrane protein of monocytes, macrophages, NK cells and a subset of T cells. CD16b is a GPI-linked monomeric receptor expressed on neutrophils and is involved in their activation and induction of a proadhesive phenotype.

Uniprot ID: Q28942

NCBI: 9823

Host / Isotype: Mouse / IgG1

Clone: G7

Immunogen: Porcine peripheral blood leucocytes.

Format:
State: Liquid purified IgG
Purification: Protein G chromatography
Buffer System: PBS with 0.09% sodium azide as preservative and 1% BSA as stabilizer.
Label: FITC – Fluorescein Isothiocyanate Isomer 1

Applications:
Flow cytometry: use 10 µl of neat antibody to label 10e6 cells in 100 µl.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:
This antibody recognises the porcine homologue of human CD16 (Fc gamma RIII alpha). CD16 is a low affinity FC gamma receptor expressed by polymorphonuclear cells (PMN), peripheral blood lymphocytes (PBL) and monocytes in pigs. Clone G7 has been reported to block PBL mediated antibody-dependent cell cytotoxicity (ADCC) and partially inhibit PMN-mediated ADCC.
Species: Pig.
Other species not tested.

Storage:
Store the antibody undiluted at 2-8°C for up to one month or (in aliquots) at -20°C long term.
Avoid repeated freezing and thawing.
This product is photosensitive and should be protected from light.
Shelf life: one year from despatch.

General Readings: 1. Dato, M. E. et al (1992). A triggering structure recognised by G7 monoclonal antibody on porcine lymphocytes and granulocytes. Cellular Immunology. 146: 468 - 477.
2. Wierda WG, Johnson BD, Dato ME, Kim YB. Two distinct porcine natural killer lytic trigger molecules as PNK-E/G7 molecular complex. Cell Immunol. 1993 Feb;146(2):270-83. PubMed PMID: 8174170.
3. Halloran PJ, Sweeney SE, Kim YB. Biochemical characterization of the porcine Fc gamma RIII alpha homologue G7. Cell Immunol. 1994 Oct 15;158(2):400-13. PubMed PMID: 7923391.