

## CD16 alpha Antibody

**Subcategory:** Mouse Monoclonal Antibody

**Cat. No.:** 250164

**Unit:** 0.1 mg

**Description:**

This antibody recognizes a polymorphism variant of CD16 alpha antigen, which is a low affinity receptor for aggregated IgG (Fc gamma receptor III). The receptor exists in two distinct forms: a glycosyl phosphatidyl inositol (GPI) form (Fc gamma RIIB), and an integral membrane protein (Fc gamma RIIIA). In humans, the transmembrane form is expressed on NK cells and macrophages whereas the GPI-linked form is expressed on granulocytes. This antibody binds both forms but binds poorly to NK cells from donors not carrying the polymorphism. The antibody can be used for detecting CD16 in flow cytometry, immunoprecipitation, western blot and blocks ligand binding.

**Isotype:** Mouse IgG1

**Applications:** B, FC, IP, WB

**Species Reactivity:** H

**Format:** Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4 with 0.09% sodium azide. Antibody was purified by Protein-A affinity chromatography.

**Alternate Names:** Low affinity immunoglobulin gamma Fc region receptor III-A; IgG Fc receptor III-2; Fc-gamma RIII-alpha; Fc-gamma RIIIa; FcRIIIa; Fc-gamma RIII; FcRIII; FcR-10; CD16a antigen; FCGR3A; CD16A; FCG3; FCGR3; IGFR3

**Accession No.:** P08637

**Antigen:** ?

**Application Notes:** FC with whole blood: 100  $\mu$ l blood + 10  $\mu$ l antibody; FC with cells: 500,000 cells in 50  $\mu$ l + 10  $\mu$ l antibody. This antibody recognizes a polymorphism in CD16a antigen, therefore binding poorly to NK cells from certain donors. The antibody blocks ligand binding.

**Storage:** Store at -20°C. Minimize freeze-thaw cycles. Product is guaranteed one year from the date of shipment.

**Product Citations:** Tamm A. and Schmidt R. 1996. J. Immunology. 157: 1576-81. PMID# 8759741.

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