

Technical Data Sheet

Anti-Human CD64

Catalog Number: 109301, 109302

Size: 100 ug, 500 ug

Target Name: CD64, FCGR1A, FCG1, FCGR1, IGFR1

Regulatory Status: RUO

Product Details

Clone: H22

Application: FC

Reactivity: Human

Format: Purified

Isotype: Mouse IgG1

Antibody Type: Monoclonal

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

Protein Concentration: 0.5 mg/mL

Storage and Handling: The antibody solution should be stored between 2°C and 8°C

Background Information

CD64, also known as FcγRI or FcR I, is a 72 kDa type I glycoprotein and a member of the immunoglobulin superfamily. This high-affinity IgG Fc receptor is predominantly expressed on monocytes, macrophages, dendritic cells, and activated granulocytes. Its expression can be upregulated by IFN-γ stimulation, enhancing its role in immune responses. CD64 binds IgG immune complexes and is involved in several crucial immune functions, including antigen capture, phagocytosis of IgG/antigen complexes, and antibody-dependent cellular cytotoxicity (ADCC). By mediating these processes, CD64 contributes to the activation of innate immune responses and the clearance of immune complexes.