Caprico Biotechnologies

TECHNICAL DATA SHEET

CD64 (32.2)

Type	Size	Catalog number
Unconjugated	100µg	107101
	500µg	107103
FITC	25 tests	107114
	100 tests	107115
	200 tests	107116

Antigen: CD64
Immunogen: Partially purified detergent lysate of the high affinity Fc receptor from U937 cells
Host/Isotype: Mouse, IgG1, κ
Reactivity: Human
Purity: >90% pure tested via polyacrylamide gel electrophoresis (PAGE)
Formulation: PBS, pH7.2, 0.09% NaN_3 (unconjugated)
PBS, pH7.2, 0.09% NaN_3 and 0.2% (w/v) BSA (conjugated)
Storage: Store at 2-8°C and protected from prolonged exposure to light. **Do not freeze.**
Applications: Flow Cytometry, IHC, IF, WB

Application Information

Each lot of this antibody has been quality control tested by intracellular flow cytometric analysis using human PBMCs. For intracellular flow cytometric staining, the recommended use of this antibody is ≤ 0.5µg per $1x10^6$ cells in 100µl of staining volume followed by a secondary florescent conjugated anti-mouse antibody. However, it is strongly suggested that the antibody reactivity be empirically titrated for optimal performance in the application of interest.

Antigen Information

The clone 32.2, a mouse monoclonal antibody selectively binds with a 72kD single chain type I glycoprotein known as CD64 or FcγRI. CD64 is a member of the immunoglobulin superfamily. FcγRI is expressed on the cell surface in association with the γ-chain. Expression of CD64 is observed on monocytes/macrophages, dendritic cells, and activated granulocytes. CD64 plays important role in the process of antigen capture, phagocytosis and antibody-dependent cellular cytotoxicity (ADCC).

References

1. Van Vugt, M.J, et al. 1996. Blood. 87:3593.
2. Ernst, L.K, et al. 1993. Proc. Natl. Acad. Sci. USA. 90:6023.
3. Ernst, L.K, et al. 1998. Mol. Immunol. 35:943.
4. Edberg, J.C, et al. 1999. J. Biol. Chem. 274:30328.
5. Scholl, P.R, et al. 1993. Proc. Natl. Acad. Sci. USA. 90:8847.
6. Fanger, N.A, et al. 1997. J. Immunol. 158:3090.

Terms and Conditions

This product is for research use only (RUO) and not intended for diagnostic testing.

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