Caprico Biotechnologies

TECHNICAL DATA SHEET

CD66b (G10F5)

Type	Size	Catalog number
FITC	25 tests	107514
	100 tests	107515
iFluor™ 488	25 tests	1075114
	100 tests	1075115
	200 tests	1075116
iFluor™ 647	25 tests	1075124
	100 tests	1075125
	200 tests	1075126

Antigen: CD66b
Immunogen: Human peripheral blood cells
Host/Isotype: Mouse, IgM, κ
Reactivity: Human
Purity: >90% pure tested via polyacrylamide gel electrophoresis (PAGE)
Formulation: PBS, pH7.2, 0.09% NaN3 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

Application Information

Each lot of this antibody has been pre-titrated and tested by flow cytometric analysis using human RBC lysed blood such that 5µl of this product is sufficient for staining of <1 million cells in a 100µl staining volume or 100µlof whole blood. It is recommended that antibody reactivity be empirically titrated for optimal performance in the application of interest.

Antigen Information

G10F5 recognizes 95-100 kDa glycosylphosphatidylinositol (GPI)-linked protein known as CD66b. CD66b is a member of carcinoembryonic antigen (CEA)-like subfamily of the immunoglobulin superfamily and considered as anon-specific cross-reacting antigens (NCA) which is increased in granulocytes after in vitro stimulation with Ca^{2+}, PMA. It is mostly expressed on granulocytes and causes activation of neutrophils through reacting heterophilic adhesion with CD66c. Research findings suggest CD66b is useful in the study of various normal and pathological conditions, including cancer, embryonic development, bacterial infection, viral infection, inflammation, pregnancy, bile transport, cell adhesion, etc.

References

1. Thompson et al., J. Clin. Lab. Anal. 5:344 (1991).
2. Obrink, B. Curr. Opin. Cell Biol. 95:616 (1997).
3. Kuroki et al., J Leukoc Biol. 52(5):551-557 (1992).
4. Lund-Johansen et al., J. Immunol. 148(10):3221-3229 (1992).
5. Chennakesava et al, Chimerism. 1:1, 11-14 (2010).
6. Meixiao et al, PLOS One 10:1371 (2014).

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Terms and Conditions

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

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