

Technical Data Sheet

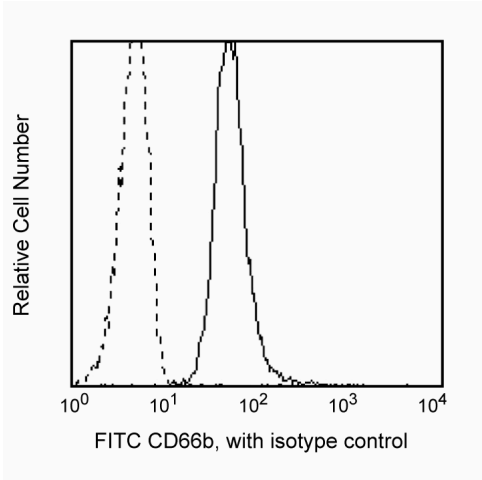
FITC Mouse Anti-Human CD66b

Product Information

Material Number:	555724
Size:	100 tests
Vol. per Test:	20 µl
Clone:	G10F5
Isotype:	Mouse IgM, κ
Reactivity:	QC Testing: Human
Workshop:	V 5T-127, MA020
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with CD66b, a glycosylphosphatidylinositol (GPI) linked protein with a molecular weight of 100 kD expressed on granulocytes. This molecule was previously clustered as CD67 in the Fourth Human Leucocyte Differentiation Antigen (HLDA) Workshop and renamed CD66b in the Fifth HLDA Workshop. CD66b is a member of the carcinoembryonic antigen (CEA)-like glycoprotein family present on granulocytes and referred to as non-specific cross-reacting antigens (NCA). Granulocyte activation induced with soluble stimulators (calcium ionophore, phorbol myristate acetate, Nformylmethionyl-leucyl-phenylalanine) results in release and increased expression of NCA. Findings suggest that these molecules may play a role in phagocytosis, chemotaxis and adherence.



Profile of peripheral blood granulocytes analyzed on a FACSscan (BDIS, San Jose, CA).

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed. Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555583	FITC Mouse IgM, κ Isotype Control	100 tests	G155-228

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Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 X 10⁶ cells in a 100-μl experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

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Schlossman S, Boumell L, et al, ed. *Leucocyte Typing V*. New York: Oxford University Press; 1995.(Clone-specific)
Kuijpers TW, van der Schoot CE, Hoogerwerf M, Roos D. Cross-linking of the carcinoembryonic antigen-like glycoproteins CD66 and CD67 induces neutrophil aggregation. *J Immunol*. 1993; 151(9):4934-4940.(Biology)
Kuroki M, Matsuo Y, Kinugasa T, Matsuoka Y. Augmented expression and release of nonspecific cross-reacting antigens (NCAs), members of the CEA family, by human neutrophils during cell activation. *J Leukoc Biol*. 1992; 52(5):551-557.(Biology)
Lund-Johansen F, Olweus J, Horejsi V, et al. Activation of human phagocytes through carbohydrate antigens (CD15, sialyl-CD15, CDw17, and CDw65). *J Immunol*. 1992; 148(10):3221-3229.(Immunogen)