Technical Data Sheet

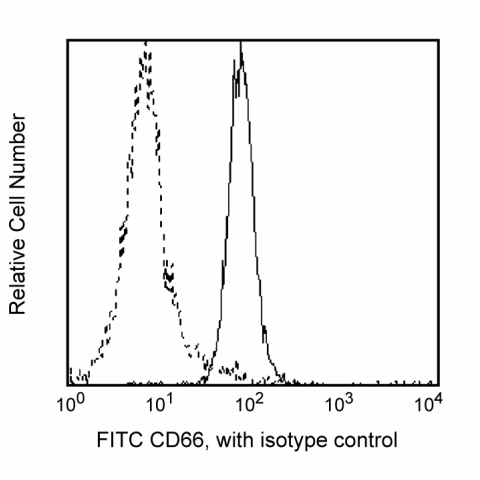
FITC Mouse Anti-Human CD66c

Product Information

Material Number:	**551775**
Alternate Name:	CEA, carcinoembryonic antigen
Size:	100 tests
Vol. per Test:	20 µl
Clone:	B6.2/CD66
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	VI MA86
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with two glycosylphosphatidylinositol-anchored glycoprotein present on granulocytes. Antibody B6.2 was studied as recognizing CD66c in the VI Human Leukocyte Differentiation Antigen workshop. CD66 antigens also known as the carcinoembryonic antigen (CEA) family of molecules, are closely related to the immunoglobulin super family of glycoproteins. Studies on CD66 molecules suggest a potential adhesion function in vivo. These molecules exhibit both homophilic and heterophilic adhesion. CEA family members may be involved in transmembrane signalling and activation of neutrophils. This clone has been found to be N-terminal domain reactive, reacted preferentially with the native protein and were conformationally dependent.



Profile of peripheral blood granulocytes analyzed by flow cytometry

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

Suggested Companion Products

Catalog Number	Name	Size	Clone
555748	FITC Mouse IgG1, κ Isotype Control	100 tests	MOPC-21

BD Biosciences

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For country-specific contact information, visit **www.bdbiosciences.com/how_to_order/**

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 X 10e6 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/pharmingen/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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Kuroki M, Arakawa F, Matsuo Y, et al. Molecular cloning of nonspecific cross-reacting antigens in human granulocytes. *J Biol Chem.* 1991; 266(18):11810-11817. (Biology)

Skubitz KM, Campbell KD, Ahmed K, Skubitz AP. CD66 family members are associated with tyrosine kinase activity in human neutrophils. *J Immunol.* 1995; 155(11):5382-5390.(Biology)

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Watt SM, Teixeira AM, Zhou GQ, et al. Homophilic adhesion of human CEACAM1 involves N-terminal domain interactions: structural analysis of the binding site. *Blood.* 2001; 98(5):1469-1479.(Biology)