

## Technical Data Sheet

## Purified Mouse Anti-Human CD66

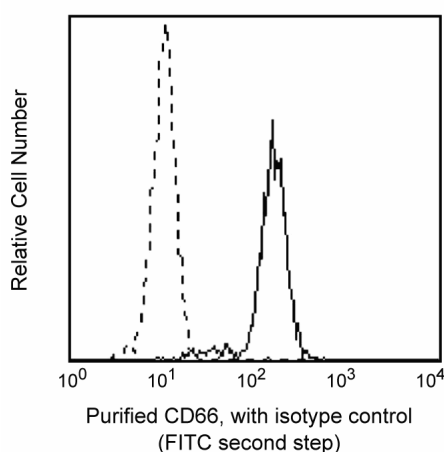
## Product Information

<b>Material Number:</b>	551354
<b>Alternate Name:</b>	CEA, carcinoembryonic antigen
<b>Size:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Clone:</b>	B1.1/CD66
<b>Isotype:</b>	Mouse IgG2a, $\kappa$
<b>Reactivity:</b>	QC Testing: Human
<b>Workshop:</b>	VI MA87
<b>Storage Buffer:</b>	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

## Description

Reacts with several glycosylphosphatidylinositol-anchored glycoproteins present on granulocytes and epithelial cells. Antibody B1.1 was studied as recognizing CD66a, c, d and e in the VI Human Leukocyte Differentiation Workshop. CD66 antigens, also known as the carcinoembryonic antigen (CEA) family of molecules, are closely related to the immunoglobulin superfamily 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 antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Profile of peripheral blood granulocytes analyzed by flow cytometry. Second step staining with Cat. No. 555988.

## Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at 4° C.

## Application Notes

## Application

Flow cytometry

Routinely Tested

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## Suggested Companion Products

Catalog Number	Name	Size	Clone
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Gt/Ms
555571	Purified Mouse IgG2a, $\kappa$ Isotype Control	0.1 mg	G155-178

## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharmlingen/protocols](http://www.bdbiosciences.com/pharmlingen/protocols) for technical protocols.
3. 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.

## References

Kishimoto T, von dem Borne AEG, Goyert SM, et al., ed. *Leucocyte Typing VI: White Cell Differentiation Antigens*. London: Garland Publishing; 1997.  
(Clone-specific)  
Schlossman S, Boumell L, et al, ed. *Leucocyte Typing V*. New York: Oxford University Press; 1995.(Biology)  
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)  
Nagel G, Grunert F, Kuijpers TW, Watt SM, Thompson J, Zimmermann W. Genomic organization, splice variants and expression of CGM1, a CD66-related member of the carcinoembryonic antigen gene family. *Eur J Biochem*. 1993; 214(1):27-35.(Biology)  
Szpak CA, Johnston WW, Lottich SC, Kufe D, Thor A, Schlom J. Patterns of reactivity of four novel monoclonal antibodies (B72.3, DF3, B1.1 and B6.2) with cells in human malignant and benign effusions. *Acta Cytol*. 1984; 28(4):356-367.(Biology)  
Thompson JA, Grunert F, Zimmermann W. Carcinoembryonic antigen gene family: molecular biology and clinical perspectives. *J Clin Lab Anal*. 1991; 5(5):344-366.(Biology)