Technical Data Sheet

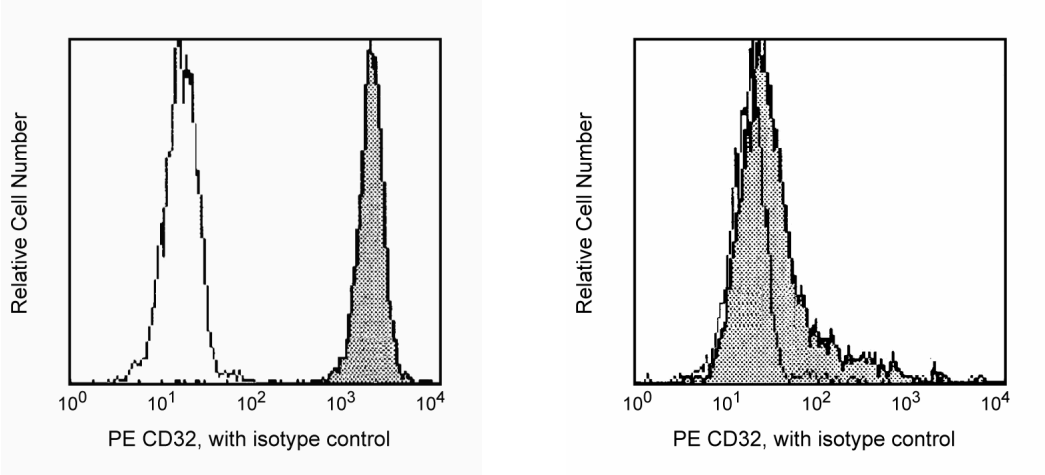
PE Mouse Anti-Human CD32

Product Information

Material Number:	**552884**
Alternate Name:	FcγRII
Size:	100 tests
Vol. per Test:	20 µl
Clone:	3D3
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with FcγRII (CD32), a 40 kDa, polymorphic transmembranous glycoprotein, highly glycosylated molecule (encoded by at least two genes), expressed on monocytes, granulocytes, platelets and B cells. Unlike FLI28.6, 3D3 mAb detected a polymorphic CD32 antigen expressed on B cells of all donors, but only on platelets, monocytes and granulocytes of some donors. The platelets from 3D3+ donors respond to certain stimulatory mAb such as CD165 (clone SN2, Cat. No. 556050) and result in aggregation. On the other hand, the platelets from 3D3 negative donors do not form aggregates after stimulation. Individuals can be divided into two groups as responder and non-responder depending on expression, or non-expression, of 3D3. In comparison to 3D3, FLI8.26 detects a monomorphic CD32 antigen expressed on all human donors.



Profile of CD32 (3D3) reactivity on peripheral blood granulocytes on responders (left panel) and non-responders (right panel) 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 R-PE under optimum conditions, and unconjugated antibody and free PE were 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
555749	PE Mouse IgG1, κ Isotype Control	100 tests	MOPC-21

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 × 10^6 cells in a 100-µl experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.

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3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
5. 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.
6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Gosselin EJ, Brown MF, Anderson CL, Zipf TF, Guyre PM. The monoclonal antibody 41H16 detects the Leu 4 responder form of human Fc gamma RII. *J Immunol.* 1990; 144(5):1817-1822. (Biology)

Vely F, Gruel N, Moncuit J, et al. A new set of monoclonal antibodies against human Fc gamma RII (CD32) and Fc gamma RIII (CD16): characterization and use in various assays. *Hybridoma.* 1997; 16(6):519-528. (Biology)