Technical Data Sheet

PE Mouse Anti-Human CD89

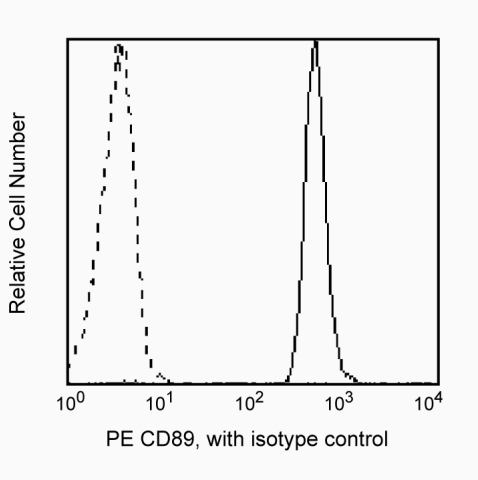
Product Information

Material Number:	**555686**
Size:	100 tests
Vol. per Test:	20 µl
Clone:	A59
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	V MA104
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with the Fc receptor for IgA (FcαR), a 55-75 kDa glycoprotein expressed exclusively on cells of granulocytic and monocyte/macrophage lineages in peripheral blood, but not on lymphocytes. It is also expressed on promyelocytes in bone marrow and in the cytoplasm of fixed monocytes. This mAb does not block IgA binding and is more efficient than native IgA ligands in the isolation of FcαR molecules. FcαR plays a role in triggering phagocytosis and respiratory burst.

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 on a FACScan (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 R-PE under optimum conditions, and unconjugated antibody and free PE were removed by gel filtration chromatography.

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

BD Biosciences

www.bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

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. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/pharmingen/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

Schlossman S, Boumell L, et al, ed. *Leucocyte Typing V*. New York: Oxford University Press; 1995.(Clone-specific)

Monteiro RC, Cooper MD, Kubagawa H. Molecular heterogeneity of Fc alpha receptors detected by receptor-specific monoclonal antibodies. *J Immunol.* 1992; 148(6):1764-1770.(Biology)

Shen L. A monoclonal antibody specific for immunoglobulin A receptor triggers polymorphonuclear neutrophil superoxide release. *J Leukoc Biol.* 1992; 51(4):373-378.(Biology)

Shen L, Collins JE, Schoenborn MA, Maliszewski CR. Lipopolysaccharide and cytokine augmentation of human monocyte IgA receptor expression and function. *J Immunol.* 1994; 152(8):4080-4086.(Biology)