

Technical Data Sheet

Purified Mouse Anti-Human CD89

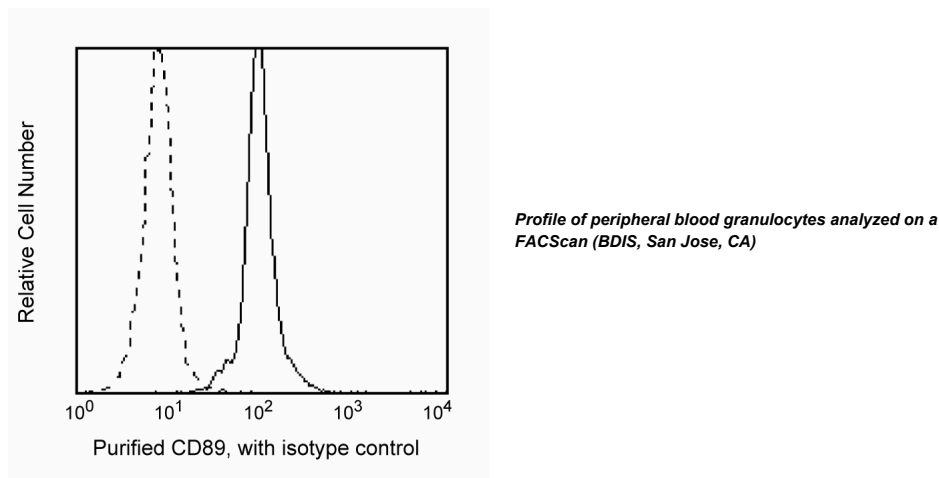
Product Information

| | |
|-------------------------|--|
| Material Number: | 555685 |
| Size: | 0.1 mg |
| Concentration: | 0.5 mg/ml |
| Clone: | A59 |
| Isotype: | Mouse IgG1, κ |
| Reactivity: | QC Testing: Human |
| Workshop: | V MA104 |
| Storage Buffer: | Aqueous buffered solution containing $\leq 0.09\%$ sodium azide. |

Description

Reacts with the Fc receptor for IgA (Fc α R), 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 Fc α R molecules. Fc α R 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.



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 |
| Immunohistochemistry-frozen | Tested During Development |

Suggested Companion Products

| Catalog Number | Name | Size | Clone |
|----------------|---|--------|------------|
| 555746 | Purified Mouse IgG1, κ Isotype Control | 0.1 mg | MOPC-21 |
| 555988 | FITC Goat Anti-Mouse IgG/IgM | 0.5 mg | Polyclonal |

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmlngen/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

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)