

Technical Data Sheet

Purified Mouse Anti-Human CD99

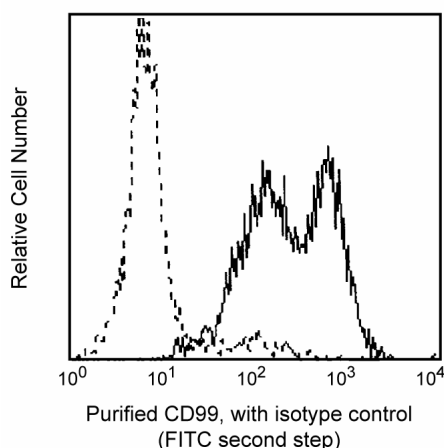
Product Information

Material Number:	555687
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	TÜ12
Isotype:	Mouse IgG2a, κ
Reactivity:	QC Testing: Human
Workshop:	IV N92
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Recognizes CD99, also referred to as E2 antigen, a 32 kDa sialoglycoprotein expressed on all leukocyte lineages. The E2 antigen is the MIC2 gene product and is differentially expressed during T- and B-lymphoid and granulocytic development, with higher densities being expressed during early hematopoietic stages. Mature granulocytes express very little or no CD99. E2 has been shown to be involved in T-cell adhesion processes and is suggested to have a functional role in hematopoietic adhesion pathways.

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 lymphocytes 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	Polyclonal
555571	Purified Mouse IgG2a, κ Isotype Control	0.1 mg	G155-178

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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/pharming/en/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

Knapp W, Dorken B, et al, ed. *Leucocyte Typing IV*. New York: Oxford University Press; 1989.(Clone-specific)

Aussel C, Bernard G, Breittmayer JP, Pelassy C, Zoccola D, Bernard A. Monoclonal antibodies directed against the E2 protein (MIC2 gene product) induce exposure of phosphatidylserine at the thymocyte cell surface. *Biochemistry*. 1993; 32(38):10096-10101.(Biology)

Dworzak MN, Fritsch G, Buchinger P, et al. Flow cytometric assessment of human MIC2 expression in bone marrow, thymus, and peripheral blood. *Blood*. 1994; 83(2):415-425.(Biology)

Gelin C, Aubrit F, Phalipon A, et al. The E2 antigen, a 32 kd glycoprotein involved in T-cell adhesion processes, is the MIC2 gene product. *EMBO J*. 1989; 8(11):3253-3259.(Biology)