

Technical Data Sheet

FITC Mouse Anti-Human CD3ε

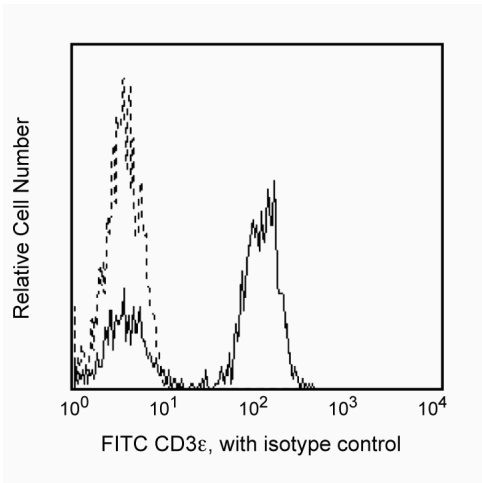
Product Information

Material Number:	556611
Size:	50 tests
Vol. per Test:	20 µl
Clone:	SP34
Isotype:	Mouse IgG3, λ
Reactivity:	Human
	QC Testing: Baboon or Cynomolgus or Rhesus
Workshop:	V 5T-CD03.05
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Clone SP34 reacts with human form of the 20 kDa epsilon subunit of the CD3 antigen/T-cell receptor (TCR) complex. This clone also cross-reacts with a major subset of peripheral blood lymphocytes, but not monocytes or granulocytes, of rhesus or cynomolgus and pigtail macaque monkeys. The distribution on lymphocytes is similar to that observed with normal human donor lymphocytes, with the majority of CD3-positive cells being negative when dual stained with antibodies to B or NK cell markers.

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 anti-CD3ε reactivity on peripheral blood lymphocytes of rhesus macaque (macaca mulatta) 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 FITC under optimum conditions, and unreacted FITC was removed. Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
556658	FITC Mouse IgG3 κ Isotype Control	50 tests	J606

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Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 X 10⁶ cells in a 100- μ l 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/pharming/en/protocols for technical protocols.
4. 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.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens*. New York: Oxford University Press; 1995.(Clone-specific)
Sancho J, Ledbetter JA, Choi MS, Kanner SB, Deans JP, Terhorst C. CD3-zeta surface expression is required for CD4-p56lck-mediated upregulation of T cell antigen receptor-CD3 signaling in T cells. *J Biol Chem*. 1992; 267(11):7871-7879.(Biology)