

Technical Data Sheet

PE Mouse Anti-Human CD3

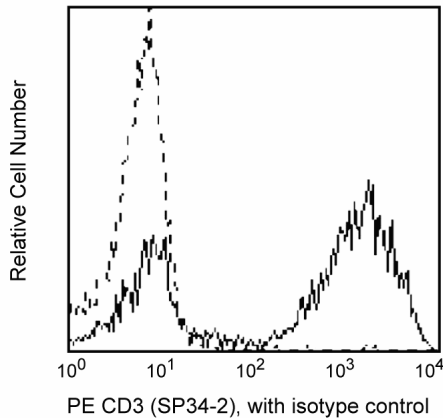
Product Information

Material Number:	552127
Size:	50 tests
Vol. per Test:	20 µl
Clone:	SP34-2
Isotype:	Mouse IgG1 λ
Reactivity:	Human
	QC Testing: Baboon or Rhesus or Cynomolgus
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Clone SP34-2 is a mouse IgG1 isotype monoclonal antibody, descendant of SP34 (mouse IgG3), with the same specificity and reactivity pattern as the parent clone. It cross-reacts with a major subset of peripheral blood lymphocytes, but not monocytes or granulocytes, of baboon, and rhesus, 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 cells markers. SP34-2 is also capable of inducing cell proliferation on both human and non-human primate PBMC.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested by BD Biosciences Pharmingen during antibody development only or reported in the literature.



Profile of anti-CD3, clone SP34-2, staining peripheral blood lymphocytes of rhesus macaque (*macaca mulatta*) monkey 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 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
556650	PE Mouse IgG1 Kappa Isotype Control	50 tests	MOPC-21

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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 10<sup>6</sup> 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/pharming/en/protocols](http://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 S, Boumell L, et al, ed. *Leucocyte Typing V*. New York: Oxford University Press; 1995.(Biology)  
Carter DL, Shieh TM, Blosser RL et al. CD56 identifies monocytes and not natural killer cells in rhesus macaques. *Cytometry*. 1999; 37(1):41-50.(Biology)  
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)  
Wilson AD, Shooshtari M, Finerty S, Watkins P, Morgan AJ. Selection of monoclonal antibodies for the identification of lymphocyte surface antigens in the New World primate *Saguinus oedipus oedipus* (cotton top tamarin). *J Immunol Methods*. 1995; 178(2):195-200.(Biology)