

## Technical Data Sheet

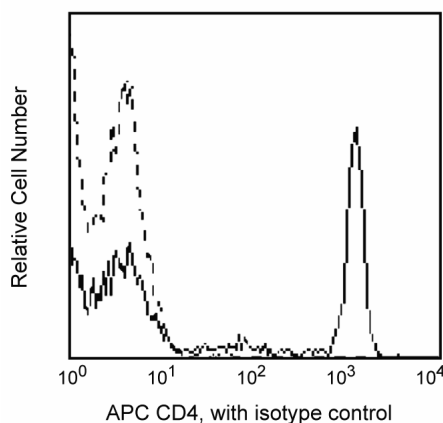
## APC Mouse Anti-Human CD4

## Product Information

<b>Material Number:</b>	<b>551980</b>
<b>Size:</b>	50 tests
<b>Vol. per Test:</b>	20 µl
<b>Clone:</b>	L200
<b>Isotype:</b>	Mouse IgG1, κ
<b>Reactivity:</b>	Human
<b>Workshop:</b>	QC Testing: Baboon or Cynomolgus or Rhesus
<b>Storage Buffer:</b>	NA
	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

## Description

The L200 monoclonal antibody specifically binds to the human form of the 56 kDa transmembrane glycoprotein, CD4, present on the T-helper/inducer subset of normal human donor peripheral blood lymphocytes. The L200 antibody also crossreacts with a subset of CD3-positive peripheral blood lymphocytes, but not monocytes, of both Rhesus and Cynomolgus Macaque monkeys. Crossreactivity on both lymphocytes and monocytes (weak) from Baboons is also observed. The distribution on lymphocytes is similar for both human and monkey cells, with the majority of CD4-positive lymphocytes being CD8-negative and lacking reactivity with antibodies to B- or NK-cell markers.



*Profile of anti-CD4 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 to APC under optimum conditions, and unconjugated antibody and free APC were 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
550854	APC Mouse IgG1 κ Isotype Control	50 tests	MOPC-21

## Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use  $1 \times 10^6$  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](http://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/colors](http://www.bdbiosciences.com/colors).
5. This APC-conjugated reagent can be used in any flow cytometer equipped with a dye, HeNe, or red diode laser.

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6. 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.
7. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

## References

- Bleavins MR, Brott DA, Alvey JD, de la Iglesia FA. Flow cytometric characterization of lymphocyte subpopulations in the cynomolgus monkey (*Macaca fascicularis*). *Vet Immunol Immunopathol*. 1993; 37(1):1-13. (Biology)
- Giorgi JV, Hultin LE, Desrosiers RC. The immunopathogenesis of retroviral diseases: no immunophenotypic alterations in T, B, and NK cell subsets in SIVmac239-challenged rhesus macaques protected by SIV delta nef vaccination. *J Med Primatol*. 1996; 25(3):186-191. (Biology)
- Indzhiiia LV, Yakovleva LA, Overbaugh J, et al. Baboon T cell lymphomas expressing the B cell-associated surface proteins CD40 and Bgp95. *J Clin Invest*. 1992; 12(3):225-236. (Biology)
- Jacobsen CN, Aasted B, Broe MK, Petersen JL. Reactivities of 20 anti-human monoclonal antibodies with leucocytes from ten different animal species. *Vet Immunol Immunopathol*. 1993; 39(4):461-466. (Biology)
- Knapp W, Dorken B, Rieber EP, et al, ed. *Leucocyte Typing IV*. New York: Oxford University Press; 1989:1-1208. (Biology)
- Powell JD, McClure HM, Anderson D, Fultz PN, Sell KW, Ahmed-Ansari A. Phenotypic and functional differences in NK and LAK cells in the peripheral blood of sooty mangabeys and rhesus macaques. *Cell Immunol*. 1989; 124(1):107-118. (Biology)
- Savary CA, Lotzova E, Jackson HJ, Jardine JH, Ang KK. Analysis of interleukin-2-activated killer cells of rhesus monkeys: striking resemblance to the human system. *J Leukoc Biol*. 1993; 54(4):307-313. (Biology)
- Schlossman S, Boumell L, et al, ed. *Leucocyte Typing V*. New York: Oxford University Press; 1995. (Biology)
- Tryphonas H, Lacroix F, Hayward S, Izaguirre C, Parenteau M, Fournier J. Cell surface marker evaluation of infant Macaca monkey leukocytes in peripheral whole blood using simultaneous dual-color immunophenotypic analysis. *J Med Primatol*. 1996; 25(2):89-105. (Biology)
- Verdier F, Aujoulat M, Condevaux F, Descotes J. Determination of lymphocyte subsets and cytokine levels in cynomolgus monkeys. *Toxicology*. 1995; 105(1):81-90. (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)