

## Technical Data Sheet

## Biotin Mouse Anti-Human CD3

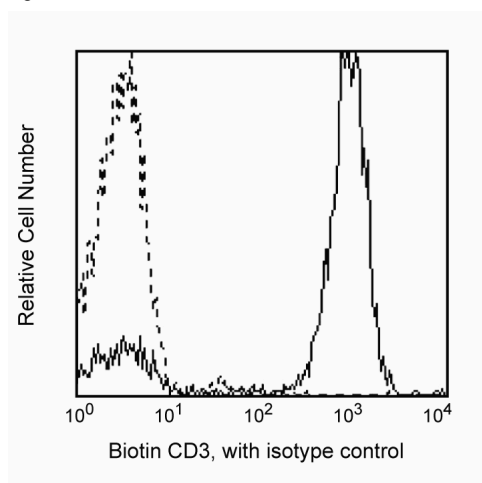
## Product Information

<b>Material Number:</b>	555331
<b>Size:</b>	100 tests
<b>Vol. per Test:</b>	20 µl
<b>Clone:</b>	UCHT1
<b>Isotype:</b>	Mouse IgG1, κ
<b>Reactivity:</b>	QC Testing Human
<b>Workshop:</b>	III 471
<b>Storage Buffer:</b>	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

## Description

Reacts with the human ε-chain, a 20-kDa subunit of CD3/T cell antigen receptor complex found on 70%-80% of normal human peripheral blood lymphocytes and 60%-85% of thymocytes. Studies from the HLDA Workshop show this antibody to be mitogenic when used in conjunction with pokeweed mitogen. CD3 plays a role in signal transduction during antigen recognition. UCHT1 antibody stains intracellular CD3 unlike the other CD3 clone, HIT3a, which stains only the extracellular CD3.

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 on a FACScan (BDIS, San Jose, CA)

## Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with biotin under optimum conditions, and unreacted biotin 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
555747	Biotin Mouse IgG1 κ Isotype Control	100 tests	MOPC-21

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## Product Notices

1. 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.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
4. 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- $\mu$ l experimental sample (a test).
5. Please refer to [www.bdbiosciences.com/pharming/en/protocols](http://www.bdbiosciences.com/pharming/en/protocols) for technical protocols.

## References

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- Barclay NA, Brown MH, Birkeland ML, et al, ed. *The Leukocyte Antigen FactsBook*. San Diego, CA: Academic Press; 1997.(Biology)
- Knapp W, Dorken B, et al, ed. *Leucocyte Typing IV*. New York: Oxford University Press; 1989.(Biology)
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- Lanier LL, Allison JP, Phillips JH. Correlation of cell surface antigen expression on human thymocytes by multi-color flow cytometric analysis: implications for differentiation. *J Immunol*. 1986; 137(8):2501-2507.(Biology)