Technical Data Sheet

Alexa Fluor® 488 Mouse Anti-Human CD3

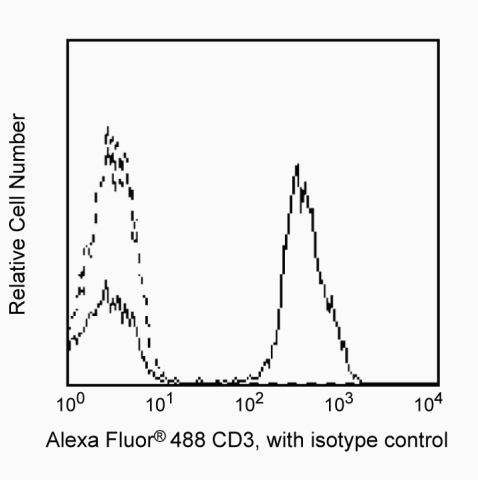
Product Information

Material Number:	**557694**
Size:	100 tests
Vol. per Test:	5 µl
Clone:	UCHT1
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	III 471
Storage Buffer:	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 development is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development or reported in the literature.



Profile of peripheral blood lymphocytes analyzed by flow cytometry.

Preparation and Storage

The antibody was conjugated to Alexa Fluor® 488 under optimum conditions, and unreacted Alexa Fluor® 488 was removed.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity 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
557702	Alexa Fluor® 488 Mouse IgG1 κ Isotype Control	100 tests	MOPC-21

BD Biosciences
bdbiosciences.com

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877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit bdbiosciences.com/how_to_order/

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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 10e6 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 for technical protocols.
4. The Alexa Fluor®, Pacific Blue™, and Cascade Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, excluding use in combination with microarrays, or as analyte specific reagents. The Alexa Fluor® dyes (except for Alexa Fluor® 430), Pacific Blue™ dye, and Cascade Blue® dye are covered by pending and issued patents.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/pharmingen/colors.
6. Alexa Fluor® 488 fluorochrome emission is collected at the same instrument settings as for fluorescein isothiocyanate (FITC).
7. 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.
8. 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.(Biology)
McMichael AJ, Beverly PCL, Gilks W, et al, ed. *Leukocyte Typing III: White Cell Differentiation Antigens.* New York: Oxford University Press; 1987.(Clone-specific)
Knapp W, Dorken B, et al, ed. *Leucocyte Typing IV.* New York: Oxford University Press; 1989.(Clone-specific)
Beverley PC, Callard RE. Distinctive functional characteristics of human "T" lymphocytes defined by E rosetting or a monoclonal anti-T cell antibody. *Eur J Immunol.* 1981; 11(4):329-334.(Biology)