Technical Data Sheet

FITC Rat Anti-Human Cutaneous Lymphocyte Antigen

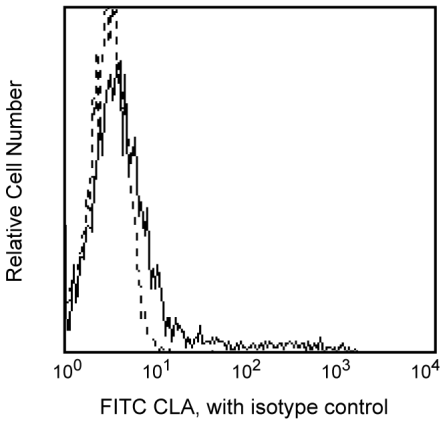
Product Information

Material Number:	**555947**
Alternate Name:	CLA
Size:	100 tests
Vol. per Test:	20 µl
Clone:	HECA-452
Isotype:	Rat IgM, κ
Reactivity:	QC Testing: Human Reported: Mouse
Workshop:	V S075
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with cutaneous lymphocyte associated antigen (CLA), a carbohydrate domain shared by sialyl Lewis[x] (sLe[x]) and sialyl Lewis[a] (sLe[a]) antigens. It serves as the ligand for selectins including CD62E (ELAM-1) and CD62L (LECAM-1). CLA is expressed on lymphocytes in the skin on high endothelium. In peripheral blood, it is expressed on a small subset of lympocytes and all monocytes and granulocytes. It has been suggested that CLA plays a role in supporting lymphocyte migration to extravascular tissue during inflammation.

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 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

Suggested Companion Products

Catalog Number	Name	Size	Clone
555951	FITC Rat IgM, κ Isotype Control	100 tests	R4-22

Product Notices

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
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/**

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 × 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 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

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Duijvestijn AM, Horst E, Pals ST, et al. High endothelial differentiation in human lymphoid and inflammatory tissues defined by monoclonal antibody HECA-452. *Am J Pathol.* 1988; 130(1):147-155. (Biology)

Knapp W, Dorken B, Rieber EP, et al, ed. *Leucocyte Typing IV*. New York: Oxford University Press; 1989. (Biology)

Picker LJ, Kishimoto TK, Smith CW, Warnock RA, Butcher EC. ELAM-1 is an adhesion molecule for skin-homing T cells. *Nature.* 1991; 349(6312):796-799. (Biology)

Picker LJ, Warnock RA, Burns AR, Doerschuk CM, Berg EL, Butcher EC. The neutrophil selectin LECAM-1 presents carbohydrate ligands to the vascular selectins ELAM-1 and GMP-140. *Cell.* 1991; 66(5):921-933. (Biology)

Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens.* New York: Oxford University Press; 1995. (Clone-specific)