

Technical Data Sheet

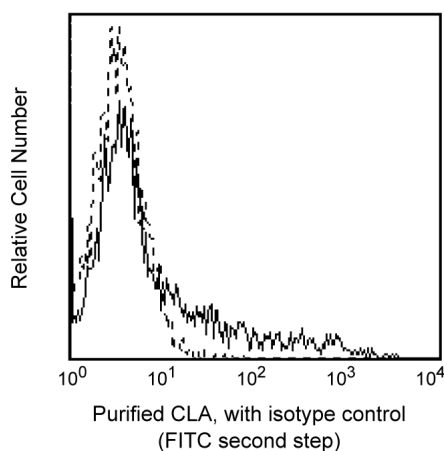
Purified Rat Anti-Human Cutaneous Lymphocyte Antigen**Product Information**

Material Number:	555946
Alternate Name:	CLA
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	HECA-452
Isotype:	Rat IgM, κ
Reactivity:	QC Testing: Human Reported: Mouse
Workshop:	V S075
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ 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 lymphocytes 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. Second step staining with Cat. No. 554016.

Preparation and Storage

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

Store undiluted at 4°C.

Application Notes**Application**

Flow cytometry	Routinely Tested
Immunohistochemistry-formalin (antigen retrieval required)	Reported
Immunohistochemistry-frozen	Reported

Suggested Companion Products

Catalog Number	Name	Size	Clone
555950	Purified Rat IgM, κ Isotype Control	0.1 mg	R4-22
554016	FITC Goat Anti-Rat Ig	0.5 mg	Polyclonal

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. 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.

References

Borges E, Pendl G, Eytner R, Steegmaier M, Zollner O, Vestweber D. The binding of T cell-expressed P-selectin glycoprotein ligand-1 to E- and P-selectin is differentially regulated. *J Biol Chem.* 1997; 272(45):28786-28792. (Clone-specific: Flow cytometry, Immunoprecipitation, Western blot)

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)

Pendl GG, Robert C, Steinert M, et al. Immature mouse dendritic cells enter inflamed tissue, a process that requires E- and P-selectin, but not P-selectin glycoprotein ligand 1. *Blood.* 2002; 99(3):946-956. (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)