

Technical Data Sheet

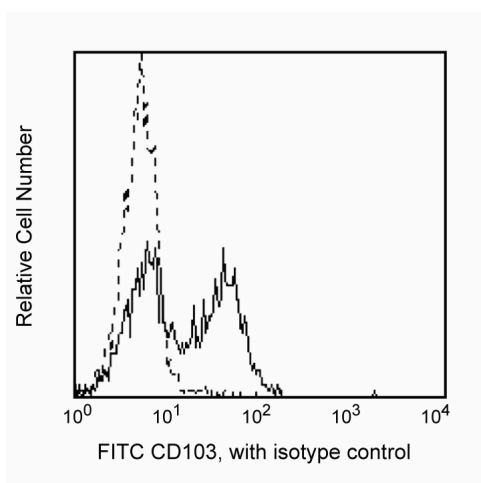
FITC Mouse Anti-Human CD103

Product Information

Material Number:	550259
Size:	100 tests
Vol. per Test:	20 µl
Clone:	Ber-ACT8
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	V A067, BP047, S256
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with the human mucosal lymphocyte antigen 1 (HML-1), a type I transmembrane molecule, 175 kDa, also known as integrin αE. It is found on >90% of intestinal intraepithelial lymphocytes (iIEL) associated with integrin β7. CD103 is also expressed on lamina propria T lymphocytes in the intestine and on PHA-stimulated peripheral blood lymphocytes. It is rarely expressed on resting peripheral blood lymphocytes. It has been suggested that CD103 may have an accessory function for activation of iIEL. CD103 has been reported as a useful tool in hairy cell leukemia research.



Profile of PHA-stimulated (3 days) peripheral blood mononuclear cells (PBMC) 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
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555748	FITC Mouse IgG1, κ Isotype Control	100 tests	MOPC-21

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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 10⁶ cells in a 100- μ l 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

- Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens*. New York: Oxford University Press; 1995. (Clone-specific)
- Kishimoto T, von dem Borne AEG, Goyert SM, et al., ed. *Leucocyte Typing VI: White Cell Differentiation Antigens*. London: Garland Publishing; 1997. (Clone-specific)
- DiGiuseppe JA, Borowitz MJ. Clinical utility of flow cytometry in the chronic lymphoid leukemias. *Semin Immunol*. 1998; 25(1):6-10.(Biology)
- Matutes E, Meeus P, McLennan K, Catovsky D. The significance of minimal residual disease in hairy cell leukaemia treated with deoxycoformycin: a long-term follow-up study. *Br J Haematol*. 1997; 98(2):375-383.(Biology)