

Technical Data Sheet

FITC Mouse Anti-Human CD50

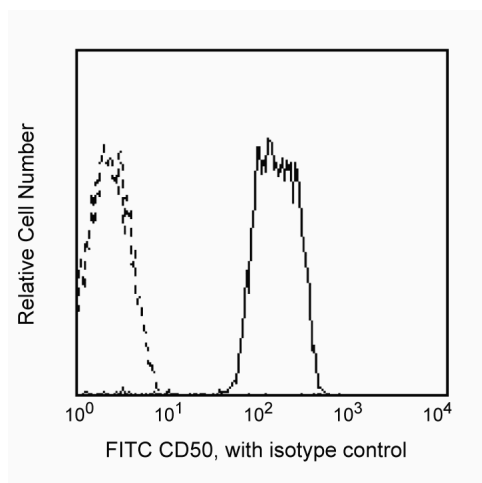
Product Information

Material Number:	555958
Alternate Name:	ICAM-3
Size:	100 tests
Vol. per Test:	20 µl
Clone:	TU41
Isotype:	Mouse IgG2b κ
Reactivity:	QC Testing: Human
Workshop:	N/A
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with the intracellular adhesion molecule-3 (ICAM-3), a 110-120 kD type I membrane glycoprotein expressed on all leukocytes (platelets and erythrocytes negative). ICAM-3 is also expressed on epidermal Langerhans cells and endothelial cells. It predominantly interacts with LFA-1 (CD11a/CD18) without requiring activation as the initial dendritic cell-T lymphocyte interaction. ICAM-3 is an important LFA-1 is an important LFA-1 ligand in the initiation of the immune/inflammatory response and also plays a role in chemotaxis.

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 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
555742	FITC Mouse IgG2b κ Isotype Control	100 tests	27-35

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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-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

Cid MC, Esparza J, Juan M, et al. Signaling through CD50 (ICAM-3) stimulates T lymphocyte binding to human umbilical vein endothelial cells and extracellular matrix proteins via an increase in beta 1 and beta 2 integrin function. *Eur J Immunol.* 1994; 24(6):1377-1382.(Biology)

del Pozo MA, Pulido R, Munoz C, et al. Regulation of ICAM-3 (CD50) membrane expression on human neutrophils through a proteolytic shedding mechanism. *Eur J Immunol.* 1994; 24(11):2586-2594.(Biology)

Starling GC, McLellan AD, Egner W, et al. Intercellular adhesion molecule-3 is the predominant co-stimulatory ligand for leukocyte function antigen-1 on human blood dendritic cells. *Eur J Immunol.* 1995; 25(9):2528-2532.(Biology)