

## Technical Data Sheet

## Purified Mouse Anti-Human CD50

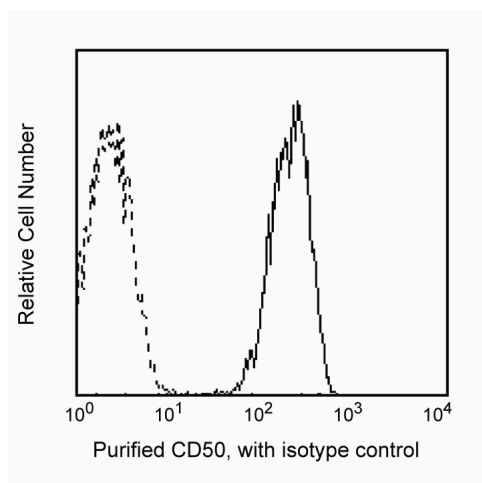
## Product Information

<b>Material Number:</b>	555957
<b>Alternate Name:</b>	ICAM-3
<b>Size:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Clone:</b>	TU41
<b>Isotype:</b>	Mouse IgG2b $\kappa$
<b>Reactivity:</b>	QC Testing: Human
<b>Workshop:</b>	N/A
<b>Storage Buffer:</b>	Aqueous buffered solution containing $\leq 0.09\%$ 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. Store undiluted at 4° C.

## Application Notes

## Application

Flow cytometry	Routinely Tested
Immunohistochemistry-frozen	Tested During Development

## Suggested Companion Products

Catalog Number	Name	Size	Clone
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Gt/Ms

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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/pharmlingen/protocols](http://www.bdbiosciences.com/pharmlingen/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

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. Inter cellular 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)