

Technical Data Sheet

FITC Mouse Anti-Rat CD18

Product Information

Material Number:	554979
Alternate Name:	Integrin β 2 chain
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	WT.3
Immunogen:	PHA-stimulated rat splenocytes and rat thymic lymphoma FTL-43
Isotype:	Mouse (BALB/c) IgG1, κ
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The WT.3 antibody reacts with the 95-100 kDa β 2 subunit (CD18), which is found on the majority of leukocytes as a heterodimer with any of the three distinct CD11 α integrin subunits (CD11a or α L, CD11b or α M, CD11c or α X) to form, respectively, LFA-1, Mac-1, and gp150, 95. The function-blocking activity of WT.3 antibody has been determined in several in vitro assays measuring the binding of LFA-1 (α L β 2 integrin) to ICAM-1 (CD54). It has also been reported that WT.3 mAb inhibits leukocyte infiltration in an in vivo system.

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.

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
550616	FITC Mouse IgG1, κ Isotype Control	0.25 mg	MOPC-31C

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

Tamatani T, Kotani M, Miyasaka M. Characterization of the rat leukocyte integrin, CD11/CD18, by the use of LFA-1 subunit-specific monoclonal antibodies. *Eur J Immunol.* 1991; 21(3):627-633.(Immunogen)

Yamazaki T, Seko Y, Tamatani T, et al. Expression of intercellular adhesion molecule-1 in rat heart with ischemia/reperfusion and limitation of infarct size by treatment with antibodies against cell adhesion molecules. *Am J Pathol.* 1993; 143(2):410-418.(Clone-specific)

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