

Technical Data Sheet

Purified NA/LE Mouse Anti-Rat CD18

Product Information

Material Number:	554976
Alternate Name:	Integrin $\beta 2$ chain
Size:	0.5 mg
Concentration:	1.0 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:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2 μ m sterile filtered. Endotoxin level is ≤ 0.01 EU/ μ g (≤ 0.001 ng/ μ g) of protein as determined by the LAL assay.

Description

The WT.3 antibody reacts with the 95-100 kDa $\beta 2$ 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.

Preparation and Storage

Store undiluted at 4°C.

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

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Application

Flow cytometry	Routinely Tested
Blocking	Reported
Immunoprecipitation	Reported
Immunohistochemistry-frozen	Reported
Immunohistochemistry-zinc-fixed	Reported

Suggested Companion Products

Catalog Number	Name	Size	Clone
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal
553447	Purified NA/LE Mouse IgG1 κ Isotype Control	0.5 mg	107.3

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.

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: Blocking, Immunoprecipitation)
 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: Blocking, Immunohistochemistry)

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