

Technical Data Sheet

Purified Mouse Anti-Rat CD11b

Product Information

Material Number:	554980
Alternate Name:	Integrin α M chain, Mac-1 α chain
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	WT.5
Immunogen:	Rat neutrophils
Isotype:	Mouse (BALB/c) IgA, κ
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The WT.5 antibody reacts with the α subunit of Mac-1 (α M β 2, CD11b/CD18) found on neutrophils and myeloid cells, but not on lymphocytes. Mac-1 expression is rapidly upregulated on neutrophils after activation, in the same time period that CD62L (L-selectin) is shed from the cell surface. Mac-1 mediates adhesion to ICAM-1 (CD54) and C3bi. Neutrophil binding to ICAM-1 is blocked by mAb WT.5.

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.
Store undiluted at 4° C.

Application Notes

Application

Flow cytometry	Routinely Tested
Immunohistochemistry-frozen	Tested During Development
Immunoprecipitation	Reported
Western blot	Reported
Blocking	Reported

Suggested Companion Products

Catalog Number	Name	Size	Clone
553476	Purified Mouse IgA κ Isotype Control	0.5 mg	M18-254
554001	FITC Goat Anti-Mouse Igs (Multiple Adsorption)	0.5 mg	Polyclonal

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, Kitamura F, Kuida K, et al. Characterization of rat LECAM-1 (L-selectin) by the use of monoclonal antibodies and evidence for the presence of soluble LECAM-1 in rat sera. *Eur J Immunol.* 1993; 23(9):2181-2188. (Immunogen: Immunoprecipitation, Western blot)
Watanabe T, Arakawa T, Fukuda T, Higuchi K, Kobayashi K. Role of neutrophils in a rat model of gastric ulcer recurrence caused by interleukin-1 beta. *Am J Pathol.* 1997; 150(3):971-979. (Clone-specific: Blocking)

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