

## Technical Data Sheet

## Biotin Mouse Anti-Rat CD11b

## Product Information

<b>Material Number:</b>	<b>554981</b>
<b>Alternate Name:</b>	Integrin $\alpha$ M chain, Mac-1 $\alpha$ chain
<b>Size:</b>	0.5 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Clone:</b>	WT.5
<b>Immunogen:</b>	Rat neutrophils
<b>Isotype:</b>	Mouse (BALB/c) IgA, $\kappa$
<b>Reactivity:</b>	QC Testing: Rat
<b>Storage Buffer:</b>	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

## Description

The WT.5 antibody reacts with the  $\alpha$  subunit of Mac-1 ( $\alpha$ M $\beta$ 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.

The antibody was conjugated with biotin under optimum conditions, and unreacted biotin 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
553477	Biotin Mouse IgA $\kappa$ Isotype Control	0.25 mg	M18-254
554060	FITC Streptavidin	0.5 mg	(none)

## 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](http://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)

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