

## Technical Data Sheet

## Biotin Rat Anti-Mouse CD102

## Product Information

Material Number:	557441
Alternate Name:	ICAM-2
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	3C4(mIC2/4)
Immunogen:	Transfected Cell Line
Isotype:	Rat (LEW) IgG2a, $\kappa$
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

## Description

The 3C4 (mIC2/4) antibody reacts with the mouse ICAM-2 (CD102) cell surface glycoprotein, a ligand for LFA-1. CD102 is constitutively expressed on endothelial cells, T and B lymphocytes, and alveolar walls. It is also expressed on a variety of leukocyte cell lines. CD102 does not appear to be involved in the development of hematopoietic cells. In a model for allergic asthma, endothelial CD102 mediates the transmigration of eosinophils (but not lymphocytes, monocytes, or macrophages) into the airway lumen. The 3C4 (mIC2/4) antibody blocks interactions between ICAM-2 and LFA-1.

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
553928	Biotin Rat IgG2a $\kappa$ Isotype Control	0.25 mg	R35-95
554057	Avidin FITC	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

Gerwin N, Gonzalo JA, Lloyd C, et al. Prolonged eosinophil accumulation in allergic lung interstitium of ICAM-2 deficient mice results in extended hyperresponsiveness. *Immunity*. 1999; 10(1):9-19. (Clone-specific)  
 Xu H, Bickford JK, Luther E, Carpenito C, Takei F, Springer TA. Characterization of murine intercellular adhesion molecule-2. *J Immunol*. 1996; 156(12):4909-4914. (Immunogen)  
 Xu H, Tong IL, De Fougerolles AR, Springer TA. Isolation, characterization, and expression of mouse ICAM-2 complementary and genomic DNA. *J Immunol*. 1999; 149(8):2650-2655. (Biology)

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