

Technical Data Sheet

Purified Rat Anti-Mouse CD102

Product Information

Material Number:	553326
Alternate Name:	ICAM-2
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	3C4(mIC2/4)
Immunogen:	Transfected Cell Line
Isotype:	Rat (LEW) IgG2a, κ
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.

Store undiluted at 4° C.

Application Notes

Application

Flow cytometry	Routinely Tested
Immunohistochemistry-frozen	Tested During Development
Blocking	Reported
Immunoprecipitation	Reported
Immunohistochemistry-paraffin	Not Recommended

Suggested Companion Products

Catalog Number	Name	Size	Clone
553927	Purified Rat IgG2a, κ Isotype Control	0.5 mg	R35-95
554016	FITC Goat Anti-Rat Igs	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.
4. Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE™ (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.

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References

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