

Technical Data Sheet

FITC Rat Anti-Mouse CD18

Product Information

Material Number:	553292
Alternate Name:	Integrin β 2 chain
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	C71/16
Immunogen:	Cell membrane glycoproteins from mouse T-cell lymphoma BW5147
Isotype:	Rat (LEW) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The C71/16 antibody reacts with the common β 2 chain of LFA-1 (CD11a/CD18, α L β 2 integrin), Mac-1 (CD11b/CD18, α M β 2 integrin), and gp150, 95 (CD11c/CD18, α x β 2 integrin). Expression of CD18 is limited to leukocytes, where it is widely distributed in consort with the three integrin α chains (CD11a, CD11b, and CD11c). Among splenocytes, NK cells have the highest density of CD18, and T lymphocytes express a higher density than the remaining cells. The β 2 integrins are important mediators of leukocyte-endothelium interactions.

Preparation and Storage

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

The antibody was conjugated with FITC under optimum conditions, and unreacted FITC 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
553929	FITC Rat IgG2a, κ Isotype Control	0.25 mg	R35-95

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

Springer TA. Traffic signals for lymphocyte recirculation and leukocyte emigration: the multistep paradigm. *Cell*. 1994; 76(2):301-314.(Biology)

Springer TA. Adhesion receptors of the immune system. *Nature*. 1990; 346(6283):425-434.(Biology)

Trowbridge IS, Omary MB. Molecular complexity of leukocyte surface glycoproteins related to the macrophage differentiation antigen Mac-1. *J Exp Med*. 1981; 154(5):1517-1524.(Immunogen)

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