

Technical Data Sheet

Purified NA/LE Rat Anti-Mouse CD18

Product Information

Material Number:	555280
Alternate Name:	Integrin $\beta 2$ chain
Size:	0.5 mg
Concentration:	1.0 mg/ml
Clone:	GAME-46
Immunogen:	LFA-1 (CD11a/CD18) from mouse T-cell hybridoma TAM8C41
Isotype:	Rat (SD) IgG1, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2 μ m sterile filtered. Endotoxin level is ≤ 0.01 EU/ μ g (≤ 0.001 ng/ μ g) of protein as determined by the LAL assay.

Description

The GAME-46 antibody reacts with the common $\beta 2$ chain of LFA-1 (CD11a/CD18, $\alpha L\beta 2$ integrin), Mac-1 (CD11b/CD18, $\alpha M\beta 2$ integrin), and gp150, 95 (CD11c/CD18, $\alpha X\beta 2$ integrin). Expression of CD18 is limited to leukocytes, where it is widely distributed in consort with each of 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 $\beta 2$ integrins are important mediators of leukocyte-endothelium interactions. It has been reported that GAME-46 antibody blocks in vitro adhesion of LFA-1-expressing cells to the ligands ICAM-1, ICAM-2 and ICAM-3 and of Mac-1-expressing cells to ICAM-1, C3bi, and fibrinogen.

Preparation and Storage

Store undiluted at 4°C.

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

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Application

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

Suggested Companion Products

Catalog Number	Name	Size	Clone
553921	Purified NA/LE Rat IgG1, κ Isotype Control	0.5 mg	R3-34
554016	FITC Goat Anti-Rat Ig	0.5 mg	Polyclonal

Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Driessens MH, van Hulten P, Zuurbier A, La Riviere G, Roos E. Inhibition and stimulation of LFA-1 and Mac-1 functions by antibodies against murine CD18. Evidence that the LFA-1 binding sites for ICAM-1, -2, and -3 are distinct. *J Leukoc Biol.* 1996; 60(6):758-765. (Immunogen: Blocking, Immunoprecipitation)
 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)

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