

Technical Data Sheet

Purified Rat Anti-Mouse CD18

Product Information

Material Number:	557440
Alternate Name:	Integrin $\beta 2$ chain
Size:	0.1 mg
Concentration:	0.5 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:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

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

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
Immunoprecipitation	Reported
Blocking	Reported

Recommended Assay Procedure:

Other reported applications include immunoprecipitation, blocking of CD18-mediated cell-adhesion functions, and immunohistochemical staining of acetone-fixed frozen mouse spleen, thymus tissue sections (in house data during development) with antibody concentration at 1-10 μ g/ml.

Suggested Companion Products

Catalog Number	Name	Size	Clone
553922	Purified Rat IgG1, κ Isotype Control	0.5 mg	R3-34
554016	FITC Goat Anti-Rat Ig	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.

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References

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