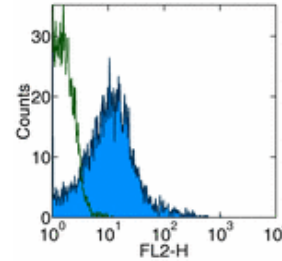


Product Information

Contents: Functional Grade Purified anti-mouse CD18 (Integrin β_2)
Catalog Number: 16-0181
Sizes: 50 μ g, 100 μ g, 500 μ g
Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, No NaN₃
Storage Conditions: Store at 4°C.
Avoid repeated freeze/thaw cycles.
KEEP CONTENT STERILE.
Endotoxin Level: Less than 0.001 ng/ μ g antibody, as determined by
the LAL assay.
Clone: M18/2
Isotype: Rat IgG2a, κ



Surface staining of mouse splenocytes with anti-mouse CD18 (M18/2) PE. Autofluorescence is shown via open histogram. Total viable cells were used for analysis.

Available Formats of This Product				
Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-0181	FITC anti-mouse CD18 (Integrin beta 2)	488	518	FC
12-0181	PE anti-mouse CD18 (Integrin beta 2)	488	575	FC
13-0181	Biotin anti-mouse CD18 (Integrin beta 2)	N/A	N/A	FC
14-0181	Affinity Purified anti-mouse CD18 (Integrin beta 2)	N/A	N/A	FA FC IHC IP WB
16-0181	Functional Grade* Purified anti-mouse CD18 (Integrin beta 2)	N/A	N/A	FA FC

*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/ μ g.
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

Description

The M18/2 monoclonal antibody reacts with mouse CD18, the 90-95 kDa integrin β_2 glycoprotein. CD18 is the common β subunit that non-covalently associates with CD11a (α_L), CD11b (α_M) and CD11c (α_X) to form LFA-1, Mac-1 and gp150/95. Heterodimers of CD18 and the α subunits are expressed broadly by all leukocytes with NK and T cells showing higher density of surface expression. Through the interactions of LFA-1, Mac-1 and gp150/95 with their counter-receptors, CD18 is involved in cellular adhesion and the immune response.

Usage

For research use only, not for diagnostic or therapeutic use. The M18/2 antibody has been reported for use in flow cytometric analysis. It has also been reported in blocking of CD18 in functional studies.

Applications Tested

The M18/2 antibody has been tested by flow cytometric analysis of mouse splenocyte and bone marrow cell suspensions. This can be used at less than or equal to 0.5 μ g per million cells in a 100 μ l total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

Cat. 11-0181 FITC anti-mouse CD18 (Integrin beta 2) (clone M18/2)
Cat. 12-0181 PE anti-mouse CD18 (Integrin beta 2) (clone M18/2)
Cat. 13-0181 Biotin anti-mouse CD18 (Integrin beta 2) (clone M18/2)
Cat. 14-0181 Affinity Purified anti-mouse CD18 (Integrin beta 2) (clone M18/2)
Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)

Cat. 16-4321 Functional Grade Purified Rat IgG2a Isotype Control
Cat. 11-4811 FITC Anti-Rat IgG
Cat. 13-4813 Biotin Anti-Rat IgG (clone Polyclonal)

References

Sanchez-Madrid, F., P. Simon, et al. 1983. Mapping of antigenic and functional epitopes on the alpha- and beta-subunits of two related mouse glycoproteins involved in cell interactions, LFA-1 and Mac-1. *J Exp Med* 158(2): 586-602.

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