
Anti-Mouse CD18 Functional Grade Purified

Catalog Number: 16-0181

Also known as: Integrin beta 2, ITGB2

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Mouse CD18 Functional Grade Purified

 **Catalog Number:** 16-0181

Clone: M18/2

Concentration: 1 mg/mL

Host/Isotype: Rat IgG2a, kappa

Handling Conditions: Use in sterile environment.

Endotoxin: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide

Temperature Limitation: Store at 2-8°C.

 **Batch Code:** Refer to vial

 **Use By:** Refer to vial

Description

The M18/2 monoclonal antibody reacts with mouse CD18, the 90-95 kDa integrin beta 2 glycoprotein. CD18 is the common β subunit that non-covalently associates with CD11a (alpha L), CD11b (alpha M) and CD11c (alpha 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.

Applications Reported

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 test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Sanchez-Madrid, F., P. Simon, et al. 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 1983. 158(2): 586-602.

Related Products

11-4811 Anti-Rat IgG FITC

16-4321 Rat IgG2a K Isotype Control Functional Grade Purified (eBR2a)