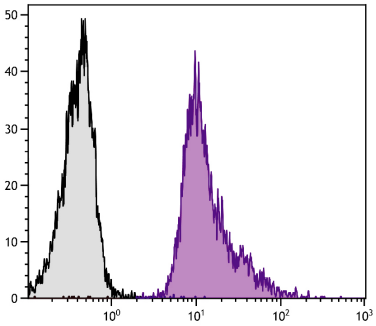
SouthernBiotech

Rat Anti-Mouse CD18

Cat. No.	Format	Size
1570-01	Purified (UNLB)	0.5 mg
1570-02	Fluorescein (FITC)	0.5 mg
1570-08	Biotin (BIOT)	0.5 mg
1570-09	R-phycoerythrin (PE)	0.1 mg
1570-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg



BALB/c mouse splenocytes were stained with Rat Anti-Mouse CD18-BIOT (SB Cat. No. 1570-08) followed by Streptavidin-FITC (SB Cat. No. (7100-02).

Overview

Clone C71/16
Isotype Rat (Lewis) $IgG_{2a\kappa}$
Immunogen Cell membrane glycoproteins derived from mouse BW5147 T cell lymphoma cells
Specificity Mouse CD18; Mr 95 kDa
Alternate Name(s) Integrin β_2, ITGB2

Description

CD18 represents the common β_2 integrin subunit that associates non-covalently with the α/β chains of CD11a, CD11b, and CD11c to form various integrin heterodimers. It is expressed strongly on lymphocytes and monocytes and weakly on granulocytes. CD18 mediates a variety of heterotypic and homotypic intercellular adhesion reactions and it regulates the ligand-binding activities of the various CD11/CD18 complexes. The monoclonal antibody C71/16 has not been reported to inhibit cell adhesion.

Applications

FC – Quality tested [2]
IHC-FS – Reported in literature [3]
IHC-PS – Reported in literature [4]
ICC – Reported in literature [2]
IP – Reported in literature [1,2]
WB – Reported in literature [2]
ELISA – Reported in literature [5]

Working Dilutions

Flow Cytometry

FITC and BIOT conjugates	≤ 1 μg/10^6 cells
PE conjugate	≤ 0.2 μg/10^6 cells

For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL

Other Applications Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

For Research Use Only. Not for Diagnostic or Therapeutic Use.

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Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added*. Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN_3. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN_3. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN_3 and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Contains no preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple freeze / thaw cycles.
- Protect fluorochrome-conjugated forms from light. Each reagent is stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

References

1. Trowbridge IS, Omary MB. Molecular complexity of leukocyte surface glycoproteins related to the macrophage differentiation antigen Mac-1. J Exp Med. 1981;154:1517-24. (Immunogen, IP)
2. Choi EY, Orlova VV, Fagerholm SC, Nurmi SM, Chang L, Ballantyne CM, et al. Regulation of LFA-1-dependent inflammatory cell recruitment by Cbl-b and 14-3-3 proteins. Blood. 2008;111:3607-14. (IP, WB, ICC, FC)
3. Bullard DC, Scharffetter-Kochanek K, McArthur MJ, Chosay JG, McBride ME, Montgomery CA, et al. A polygenic mouse model of psoriasiform skin disease in CD18-deficient mice. Proc Natl Acad Sci USA. 1996;93:2116-21. (IHC-FS)
4. Gerth AJ, Lin L, Neurath MF, Glimcher LH, Peng SL. An innate cell-mediated, murine ulcerative colitis-like syndrome in the absence of nuclear factor of activated T cells. Gastroenterology. 2004;126:1115-21. (IHC-PS)
5. Shirakabe K, Shibagaki Y, Yoshimura A, Koyasu S, Hattori S. A proteomic approach for the elucidation of the specificity of ectodomain shedding. J Proteomics. 2014;98:233-43. (ELISA)

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