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Monoclonal Antibody to CD2 - FITC

Alternate names: Erythrocyte receptor, LFA-2, LFA-3 receptor, Rosette receptor, SRBC, T-cell surface antigen CD2, T-cell surface antigen T11/Leu-5

Catalog No.: AM08025FC-S

Quantity: 0.1 mg

Concentration: 0.5 mg/ml

Background: CD2, also known as leukocyte function-associated antigen-2 (LFA-2), is a member of the immunoglobulin superfamily of cell adhesion molecules. (Ref.1) It is expressed on the surface of >95% of thymocytes, and essentially all B cells, T cells and NK cells. (Ref.1-3) In the mouse, CD2 is the receptor for CD48. (Ref.4) CD2 is thought to play a major role in mediating T-cell adhesion, T-cell recognition/activation, T-cell signaling and intrathymic differentiation. (Ref.5-10)

Uniprot ID: P08920

NCBI: NP_038514.1

GeneID: 12481

Host / Isotype: Rat / IgG1

Clone: 12-15

Format: **State:** Liquid purified Ig fraction.
Buffer System: PBS containing 0.09% Sodium Azide as preservative.
Label: FITC – Fluorescein Isothiocyanate Isomer 1

Applications: **Flow Cytometry** < / = 1 µg/10e6 cells. (Ref.1-3)
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody is specific to CD2/LFA-2 (Mr 45-58 kDa)
Species: Mouse.
Other species not tested.

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
This product is photosensitive and should be protected from light.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:
1. Altevogt, P., U. Kohl, P. von Hoegen, E. Lang, and V. Schirrmacher. 1989. Eur. J. Immunol. 19:341-346.
2. Altevogt, P., M. Michaelis, and R.A. and B. A. Kyewski. 1989. Eur. J. Immunol. 19:1509.
3. Kato, K., M. Koyanagi, H. Okada, T. Takanashi, Y.W. Wong, A.F. Williams, K. Okumura, and H. Yagita. 1992. J. Exp. Med. 176:1241-
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5. Guckel, B., C. Berek, M. Lutz, P. Altevogt, V. Schirrmacher, and B.A. Kyewski. 1991. J. Exp. Med. 174:947.
6. Shaw, S., G.E.G. Luce, R. Quinones, R.E. Gress, T.A. Springer, and M.E. Sanders. 1986. Nature (London)323:262-264.
7. Shaw, S., and G.E.G. Luce. 1987. J. Immunol. 139:1037-1045.
8. Bierer, B.E., A. Peterseon, J. Barbosa, B. Seed, and S.J. Burakoff. 1988. Proc. Natl. Acad. Sci. USA 85:1194-1198.
9. Alcover, A., D. Ramarli, N.E. Richardson, H. Chang, and E.L. Reinherz. Immunol. Rev. 95:5-36.
10. Linch, D.C., D.L. Wallace, and K. O'Flynn. 1987. Immunol. Rev. 95:137-159.
11. Selvaraj, O., M.L. Plunkett, M.Dustin, M.E. Sanders, S. Shaw, and T.A. Springer. Nature (London) 326:400-403.

Pictures:

Immunofluorescent Staining: BALB/c lymph node cells were stained with Rat anti-Mouse CD2-FITC (Cat#AM08025FC). Lymphocytes were then gated and analyzed by flow cytometry. Amount Used: 1 µg/10e6 cells.