

## Monoclonal Antibody to CD2 - FITC

<b>Alternate names:</b>	Erythrocyte receptor, LFA-2, LFA-3 receptor, Rosette receptor, SRBC, T-cell surface antigen CD2, T-cell surface antigen T11/Leu-5
<b>Catalog No.:</b>	AM01066FC-N
<b>Quantity:</b>	100 Tests
<b>Concentration:</b>	0.1mg/ml
<b>Background:</b>	CD2 is a surface antigen of the human T lymphocyte lineage that is expressed on all peripheral blood T cells. It is one of the earliest T cell markers, being present on more than 95% of thymocytes; it is also found on some natural killer cells but not on B lymphocytes. CD2 interacts with lymphocyte function associated antigen (LFA3) and CD48/BCM1 to mediate adhesion between T cells and other cell types. CD2 is implicated in the triggering of T cells, the cytoplasmic domain is implicated in the signaling function. It is useful for the identification of lymphomas and leukaemias of T cell origin.
<b>Uniprot ID:</b>	<a href="#">Q5MB93</a>
<b>NCBI:</b>	<a href="#">9913</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	CC42
<b>Immunogen:</b>	<b>Genename:</b> CD2
<b>Format:</b>	<b>State:</b> Liquid purified Ig <b>Purification:</b> Affinity chromatography on Protein G <b>Buffer System:</b> PBS, pH 7.4 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	Flow Cytometry: Neat - 1/10; Use 10µl of the suggested working dilution to label 10e6 cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises the bovine homologue of human CD2. <b>Species:</b> Bovine, Goat. Other species not tested.
<b>Add. Information:</b>	The antibody inhibits rosetting with SRBC and stains cells in primary and secondary lymphoid organs in patterns consistent with those seen by human CD2 monoclonal antibodies.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.

- General Readings:**
1. Davis, W.C. and Splitter, G.S. (1991) Individual antigens of cattle. Bovine CD2 (BoCD2). *Vet. Immunol. Immunopathol.* 27: 43-50.
  2. Sopp P, Howard CJ, Parsons KR. Investigating monoclonal antibodies to bovine "null" cell antigens using two-colour immunofluorescence. *Vet Immunol Immunopathol.* 1991 Jan;27(1-3):163-8. PubMed PMID: 2021062.
  3. Eskra L, O'Reilly KL, Splitter GA. Effect of monoclonal antibodies on in vitro function of T-cell subsets. *Vet Immunol Immunopathol.* 1991 Jan;27(1-3):215-22. PubMed PMID: 1826982.
  4. Gutierrez M, Forster FI, McConnell SA, Cassidy JP, Pollock JM, Bryson DG. The detection of CD2+, CD4+, CD8+, and WC1+ T lymphocytes, B cells and macrophages in fixed and paraffin embedded bovine tissue using a range of antigen recovery and signal amplification techniques. *Vet Immunol Immunopathol.* 1999 Nov 30;71(3-4):321-34. PubMed PMID: 10587310.

**Pictures:** AM01066FC-N (MOUSE ANTI BOVINE CD2:FITC) staining of bovine peripheral blood lymphocytes.

