Datasheet: MCA1194B

Description:	MOUSE ANTI HUMAN CD2:Biotin
Specificity:	CD2
Other names:	LFA-2
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	LT2
Isotype:	IgG2b
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Rhesus Monkey, Chimpanzee, Cynomolgus monkey
N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG conjugated to biotin - liquid.

Preparation

Purified IgG prepared by affinity chromatography on Protein A from ascites

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% sodium azide (NaN_3)
1% bovine serum albumin

Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Normal human peripheral blood lymphocytes.
External Database Links	**UniProt:** P06729 Related reagents **Entrez Gene:** 914 CD2 Related reagents
Synonyms	SRBC
RRID	AB_323385
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse X63.653 myeloma cell line.
Specificity	**Mouse anti Human CD2 antibody, clone LT2** recognizes human CD2, a single chain transmembrane glycoprotein of 50 kDa, expressed by T cells, NK cells and thymocytes. CD2 is a receptor for CD58 (LFA-3), and is important in mediating the interaction between T cells and target cells or antigen presenting cells. Mouse anti Human CD2 antibody, clone LT2 inhibits NK cell mediated cytotoxicity, and ConA and PHA mediated blast transformation.
Flow Cytometry	Use 10Ml of the suggested working dilution to label 10^6 cells or 100µl of whole blood using the lysed whole blood labeling method
References	1. Lin, C.W. *et al.* (2005) CD94 1A transcripts characterize lymphoblastic lymphoma/leukemia of immature natural killer cell origin with distinct clinical features. Blood. 106 (10): 3567-74. 2. Kap, Y.S. *et al.* (2009) A monoclonal antibody selection for immunohistochemical examination of lymphoid tissues from non-human primates. J Histochem Cytochem. 57: 1159-67. 3. Bruger, A.M. *et al.* (2020) Protocol to assess the suppression of T-cell proliferation by human MDSC. Methods Enzymol. 632: 155-92.
Further Reading	1. Moingeon, P. *et al.* (1989) The structural biology of CD2. Immunol Rev. 111: 111-44. 2. Beyers, A.D. *et al.* (1989) Activation of T lymphocytes via monoclonal antibodies against rat cell surface antigens with particular reference to CD2 antigen. Immunol Rev. 111: 59-77.
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1194B 10041
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A)
HUMAN SEROBLOCK (BUF070B)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	**Worldwide**	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	**Europe**	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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