

Datasheet: MCA1194A647T

Description:	MOUSE ANTI HUMAN CD2:Alexa Fluor® 647
Specificity:	CD2
Other names:	LFA-2
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	LT2
Isotype:	IgG2b
Quantity:	25 TESTS/0.25ml

Product Details

RRID AB_1101168

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 - 1/10

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.

Product Form Purified IgG conjugated to Alexa Fluor® 647 - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665

Preparation Purified IgG prepared by affinity chromatography on Protein A.

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.09% Sodium Azide
1% Bovine Serum Albumin

Approx. Protein Concentrations IgG concentration 0.05 mg/ml

Immunogen Normal human peripheral blood lymphocytes.

External Database Links	UniProt: P06729 Related reagents Entrez Gene: 914 CD2 Related reagents
Synonyms	SRBC
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse X63.653 myeloma cell line.
Specificity	<p>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.</p> <p>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.</p> <p>Mouse anti Human CD2 antibody, clone LT2 inhibits NK cell mediated cytotoxicity, and ConA and PHA mediated blast transformation.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells or 100ul of whole blood using the lysed whole blood labelling method.
References	<ol style="list-style-type: none"> Moingeon, P. <i>et al.</i> (1989) The structural biology of CD2. Immunol Rev. 111: 111-44. Beyers, A.D. <i>et al.</i> (1989) Activation of T lymphocytes via monoclonal antibodies against rat cell surface antigens with particular reference to CD2 antigen. Immunol Rev. 111: 59-77. Lin, C.W. <i>et al.</i> (2005) CD94 1A transcripts characterize lymphoblastic lymphoma/leukemia of immature natural killer cell origin with distinct clinical features. Blood. 106 (10): 3567-74. Kap, Y.S. <i>et al.</i> (2009) A monoclonal antibody selection for immunohistochemical examination of lymphoid tissues from non-human primates. J Histochem Cytochem. 57: 1159-67.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	18 months from date of despatch.
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Health And Safety Information Material Safety Datasheet documentation #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA691A647\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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