

Datasheet: MCA1194EL

Description:	MOUSE ANTI HUMAN CD2:Low Endotoxin
Specificity:	CD2
Other names:	LFA-2
Format:	Low Endotoxin
Product Type:	Monoclonal Antibody
Clone:	LT2
Isotype:	IgG2b
Quantity:	0.5 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	▪			1/50 - 1/100
Immunohistology - Frozen (1)	▪			1/200 - 1/400
Immunohistology - Paraffin		▪		
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	
Functional Assays	▪			

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.

(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.

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 - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Endotoxin Level	< 0.01 EU/ug
Approx. Protein Concentrations	IgG concentration 1 mg/ml
Immunogen	Normal human peripheral blood lymphocytes.
External Database Links	<p>UniProt: P06729 Related reagents</p> <p>Entrez Gene: 914 CD2 Related reagents</p>
Synonyms	SRBC
RRID	AB_2073672
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 in 100ul.
Histology Positive Control Tissue	Human Tonsil
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.](#)

4. 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.](#)

Storage Store at -20°C only.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10162 available at: 10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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

'M364874:200529'

Printed on 08 Apr 2021