

## Datasheet: MCA1194EL

<b>Description:</b>	MOUSE ANTI HUMAN CD2:Low Endotoxin
<b>Specificity:</b>	CD2
<b>Other names:</b>	LFA-2
<b>Format:</b>	Low Endotoxin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	LT2
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	0.5 mg

## Product Details

**RRID** AB\_2073672

### 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](http://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.

**Product Form** Purified IgG - liquid

**Preparation** Purified IgG prepared by affinity chromatography on Protein G

**Buffer Solution** Phosphate buffered saline

**Preservative** None present

**Stabilisers**

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**Endotoxin Level** <0.01EU/ug

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**Approx. Protein Concentrations** IgG concentration 1 mg/ml

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**Immunogen** Normal human peripheral blood lymphocytes.

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**External Database Links**  
**UniProt:**  
[P06729](#) [Related reagents](#)  
**Entrez Gene:**  
[914](#) CD2 [Related reagents](#)

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**Synonyms** SRBC

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**Fusion Partners** Spleen cells from immunised BALB/c mice were fused with cells of the mouse X63.653 myeloma cell line.

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**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.

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**Flow Cytometry** Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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**Histology Positive Control Tissue** Human Tonsil

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**References**

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.](#)
3. 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.](#)
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.](#)

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**Storage** Store at -20°C only.

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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.

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**Guarantee** 18 months from date of despatch.

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**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 IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Human Anti Mouse IgG2b (HCA038...) [FITC](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®549](#),  
[DyLight®649](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)

### Recommended Negative Controls

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

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