

Datasheet: MCA1368GT

BATCH NUMBER 152644

Description:	RAT ANTI MOUSE CD11a
Specificity:	CD11a
Other names:	INTEGRIN ALPHA L CHAIN, LFA-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	I21/7
Isotype:	IgG2a
Quantity:	25 µg

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	▪			
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	

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	Mouse
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Whole BW5147 cells.
External Database Links	<p>UniProt: P24063 Related reagents</p> <p>Entrez Gene: 16408 Itgal Related reagents</p>
Synonyms	Lfa-1, Ly-15
RRID	AB_2128739
Specificity	<p>Rat anti Mouse CD11a antibody, clone I21/7 recognizes murine CD11a, a ~170-180 kDa type I membrane glycoprotein, also known as the integrin alpha L subunit. CD11a is a member of the integrin family of adhesion molecules. CD11a is expressed on all leucocytes and associates with CD18 to form a heterodimer at the cell surface. The CD11a/CD18 heterodimer binds to intercellular adhesion molecules (ICAM); ICAM1, ICAM-2 and ICAM-3 and is involved in cell-cell adhesion processes.</p> <p>Rat anti Mouse CD11a antibody, clone I21/7 is reported to block the cytolytic activity of cytotoxic T cell lines (Trowbridge and Omary 1981).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Talento, A. <i>et al.</i> (1993) A single administration of LFA-1 antibody confers prolonged allograft survival. Transplantation. 55 (2): 418-22. 2. Campbell, S.B. <i>et al.</i> (2001) CD4 ligation promotes the IL-4-independent development of IL-4-producing clones from naive CD4(+) T cells. J Immunol. 167 (10): 5610-9. 3. Kleinschnitz, C. <i>et al.</i> (2013) Regulatory T cells are strong promoters of acute ischemic stroke in mice by inducing dysfunction of the cerebral microvasculature. Blood. 121: 679-691 4. Falanga, P.B. & Butcher, E.C. (1991) Late treatment with anti-LFA-1 (CD11a) antibody prevents cerebral malaria in a mouse model. Eur J Immunol. 21 (9): 2259-63. 5. Chiu, W.C. <i>et al.</i> (2007) Effect of dietary fish oil supplementation on cellular adhesion molecule expression and tissue myeloperoxidase activity in diabetic mice with sepsis. Br J Nutr. 97 (4): 685-91. 6. Xumei, H. <i>et al.</i> (2020) Mesenchymal stem cell-derived exosomal microRNA-34c-5p ameliorates renal pericyte activation by inhibiting core fucosylation [preprint]. Nov 13. [Epub ahead of print].
Further Reading	1. Springer, T.A. <i>et al.</i> (1982) LFA-1 and Lyt-2,3, molecules associated with T lymphocyte-mediated killing; and Mac-1, an LFA-1 homologue associated with complement receptor

function. [Immunol Rev. 68: 171-95.](#)

Storage	Store at +4°C or at -20°C if preferred. 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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1368GT 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®550 , DyLight®650 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL \(MCA1212\)](#)

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](https://www.bio-rad-antibodies.com/datasheets)
'M365213:200529'

Printed on 18 Jan 2024