# Datasheet: MCA1848

| | |
|---|---|
| **Description:** | MOUSE ANTI HUMAN CD11a |
| **Specificity:** | CD11a |
| **Other names:** | INTEGRIN ALPHA L CHAIN, LFA-1 |
| **Format:** | Purified |
| **Product Type:** | Monoclonal Antibody |
| **Clone:** | 38 |
| **Isotype:** | IgG2a |
| **Quantity:** | 0.2 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 | ▪ | | | |
| Immunohistology - Paraffin | | | ▪ | |
| ELISA | | | ▪ | |
| Immunoprecipitation | ▪ | | | |
| Western Blotting | | | ▪ | |
| Immunofluorescence | ▪ | | | |
| 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.

| | |
|---|---|
| **Target Species** | Human |
| **Product Form** | Purified IgG - liquid |
| **Preparation** | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant |
| **Buffer Solution** | Phosphate buffered saline |
| **Preservative Stabilisers** | 0.09% Sodium Azide |
| **Carrier Free** | Yes |
| **Approx. Protein Concentrations** | IgG concentration 1 mg/ml |

| | |
|---|---|
| **External Database Links** | **UniProt:**<br>P20701 Related reagents<br><br>**Entrez Gene:**<br>3683 ITGAL Related reagents |
| **Synonyms** | CD11A |
| **Specificity** | **Mouse anti Human CD11a antibody, clone 38** recognizes the integrin alphaL subunit, a 180 kDa glycoprotein expressed by all human leucocytes. CD11a is involved in cell-cell adhesion processes and binds to ICAM-1, 2 and 3.<br><br>Mouse anti Human CD11a antibody, clone 38 neutralizes CD11a mediated adhesion. |
| **Histology Positive Control Tissue** | Human Tonsil |
| **References** | 1. Daehn, I.S. (2010) T-lymphocyte-induced, fas-mediated apoptosis is associated with early keratinocyte differentiation. Exp Dermatol. 19: 372-80.<br>2. Dransfield, I. & Hogg, N. (1989) Regulated expression of Mg2+ binding epitope on leukocyte integrin alpha subunits. EMBO J. 8 (12): 3759-65.<br>3. Berg, L.P. *et al.* (2002) Functional consequences of noncognate interactions between CD4+ memory T lymphocytes and the endothelium. J Immunol. 168 (7): 3227-34.<br>4. Foster, G.R. *et al.* (2004) IFN-alpha subtypes differentially affect human T cell motility. J Immunol. 173: 1663-70.<br>5. Evans, B.J. *et al.* (2006) Shedding of lymphocyte function-associated antigen-1 (LFA-1) in a human inflammatory response. Blood. 107: 3593-9.<br>6. Suchard, S.J. *et al.* (2010) An LFA-1 (alphaLbeta2) small-molecule antagonist reduces inflammation and joint destruction in murine models of arthritis. J Immunol. 184: 3917-26.<br>7. Porter, J.C. and Hall, A. (2009) Epithelial ICAM-1 and ICAM-2 regulate the egression of human T cells across the bronchial epithelium. FASEB J. 23: 492-502.<br>8. Stax, A.M. *et al.* (2017) Autoreactivity to Sulfatide by Human Invariant NKT Cells. J Immunol. 199 (1): 97-106.<br>9. Dominical, V.M. *et al.* (2014) Prominent role of platelets in the formation of circulating neutrophil-red cell heterocellular aggregates in sickle cell anemia. Haematologica. 99 (11): e214-7. |
| **Storage** | Store at +4$^{o}$C or at -20$^{o}$C if preferred.<br><br>This product should be stored undiluted.<br><br>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. |
| **Shelf Life** | 18 months from date of despatch. |
| **Health And Safety Information** | Material Safety Datasheet documentation #10040 available at:<br>10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf |
| **Regulatory** | For research purposes only |

# Related Products

## Recommended Secondary Antibodies

| | |
|---|---|
| Goat Anti Mouse IgG (STAR76...) | RPE |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | Alk. Phos., HRP |
| Goat Anti Mouse IgG (H/L) (STAR117...) | Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP |
| Rabbit Anti Mouse IgG (STAR9...) | FITC |
| Goat Anti Mouse IgG (STAR77...) | HRP |
| Rabbit Anti Mouse IgG (STAR12...) | RPE |
| Goat Anti Mouse IgG (Fc) (STAR120...) | FITC, HRP |
| Rabbit Anti Mouse IgG (STAR8...) | DyLight®800 |
| Goat Anti Mouse IgG (STAR70...) | FITC |
| Human Anti Mouse IgG2a (HCA037...) | FITC, HRP |
| Rabbit Anti Mouse IgG (STAR13...) | HRP |

## Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL (MCA929)


**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



'M315415:180503'

**Printed on 15 May 2018**



© 2018 Bio-Rad Laboratories Inc | Legal | Imprint