

Datasheet: MCA2298F

BATCH NUMBER 0812

| Description: | HAMSTER ANTI MOUSE CD29:FITC |
|----------------------|------------------------------|
| Specificity: | CD29 |
| Other names: | INTEGRIN BETA 1 CHAIN |
| Format: | FITC |
| Product Type: | Monoclonal Antibody |
| Clone: | HM beta 1-1 |
| Isotype: | lgG |
| Quantity: | 0.1 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 | - | | | 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 | Mouse | | | |
|----------------|-------------------------------|--|----------------------|------------------------|
| Species Cross | Reacts with: Rat | | | |
| Reactivity | reactivity is derive | activity and working conditied from testing within our landstance or landstance or signated in the control of t | aboratories, peer-re | viewed publications or |
| Product Form | Purified IgG conju | ugated to Fluorescein Isoth | niocyanate Isomer 1 | (FITC) - liquid |
| Max Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm) |) |
| | FITC | 490 | 525 | |
| Preparation | Purified IgG prep supernatant | ared by affinity chromatog | raphy on Protein G f | rom tissue culture |

| Buffer Solution | Phosphate buffered saline | |
|--------------------------------|--|--|
| Preservative Stabilisers | 0.09% Sodium Azide | |
| Gudingers | 1% Bovine Serum Albumin | |
| Approx. Protein Concentrations | IgG concentration 0.1 mg/ml | |
| Immunogen | Purified mouse VLA-4 antigen. | |
| External Database | UniProt: | |
| Links | P09055 Related reagents | |
| | Entrez Gene: | |
| | 16412 Itgb1 Related reagents | |
| RRID | AD FCCCOO | |
| KKID | AB_566688 | |
| Fusion Partners | Spleen cells from immunized Armenian hamsters were fused we mouse myeloma cell line. | vith cells of the P3U1 |
| Specificity | Hamster anti Mouse CD29 antibody, clone HM beta 1-1 reconstant della subunit (CD29), a ~110 kDa cell surface glycoprotein that variety of cells including all leucocytes. CD29 forms non-covaled alpha subunits, including CD51 and CD49a-f, to form heterodine heterodimers include collagen, fibronectin, laminin and vasculate the immune system beta 1 integrins play an important role in consciutation and differentiation. Hamster anti Mouse CD29 antibody, clone HM beta 1-1 is reposite integrin mediated adhesion (Noto et al. 1995). | at is widely expressed by a ent bonds with the integrin ners. The ligands for these r adhesion molecule-1. In ell adhesion, migration, |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 10 ⁶ cells in | 100ul. |
| | The Fc region of monoclonal antibodies may bind non-specifical affinity Fc receptors. This may be reduced by using SeroBlock | |
| References | Noto, K. <i>et al.</i> (1995) Identification and functional characterize a mAb. Int Immunol. 7 (5): 835-42. Lu, T.Y. <i>et al.</i> (2010) Epithelial cell adhesion molecule regular maintenance of the undifferentiated phenotype of human embry Chem. 285: 8719-32. Li S <i>et al.</i> (2010) Upregulation of CXCR4 favoring neural-like activation. Neurosci Res. 67 (4): 293-9. Eto, D.S. <i>et al.</i> (2007) Integrin-mediated host cell invasion by uropathogenic Escherichia coli. PLoS Pathog. 3: e100. Tiede, B.J. <i>et al.</i> (2009) A novel mouse model for non-invasion. | e cells migration via AKT y type 1-piliated |

mammary stem cells in vivo reveals stem cell dynamics throughout pregnancy. <u>PLoS One.</u> 4 (11): e8035.

- 6. Kouros-Mehr H (2008) GATA-3 links tumor differentiation and dissemination in a luminal breast cancer model. <u>Cancer Cell. 13: 141-52.</u>
- 7. Xu, L. *et al.* (2017) Umbilical cord-derived mesenchymal stem cells on scaffolds facilitate collagen degradation via upregulation of MMP-9 in rat uterine scars. <u>Stem Cell Res Ther. 8 (1): 84.</u>

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. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody.

| Guarantee | 12 months from date of despatch |
|----------------------------------|--|
| Health And Safety Information | Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2298F 10041 |
| Regulatory | For research purposes only |

Related Products

Recommended Negative Controls

HAMSTER (ARMENIAN) IgG NEGATIVE CONTROL:FITC (MCA2356F)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe Tel:

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

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

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