

Datasheet: MCA1269EL

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| Description: | MOUSE ANTI HUMAN CD100:Low Endotoxin |
| Specificity: | CD100 |
| Format: | Low Endotoxin |
| Product Type: | Monoclonal Antibody |
| Clone: | A8 |
| Isotype: | IgG1 |
| 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 | ▪ | | | 1/10 - 1/50 |
| 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.

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| Target Species | Human |
| Species Cross Reactivity | Reacts with: Cynomolgus monkey, Rhesus Monkey N.B. Antibody reactivity and working conditions may vary between species. |
| Product Form | Purified IgG - liquid |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | None present |
| Carrier Free | Yes |
| Endotoxin Level | <0.01EU/ug |
| Approx. Protein Concentrations | IgG concentration 1.0mg/ml |

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| Immunogen | Human PHA activated lymphocytes. |
| External Database Links | <p>UniProt: Q92854 Related reagents</p> <p>Entrez Gene: 10507 SEMA4D Related reagents</p> |
| Synonyms | C9orf164, CD100, SEMAJ |
| Fusion Partners | Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line. |
| Specificity | Mouse anti Human CD100 antibody, clone A8 recognizes human Sepaphorin 4D, also known as CD100, A8, BB18 or GR3. CD100 is a 841 amino acid ~150 kDa homodimeric single pass type 1 transmembrane cell surface glycoprotein acting as a receptor for some members of the plexin family. CD100 is expressed at low levels by peripheral blood T cells, and at higher density on activated T cells and B cells, it is also expressed at high levels in fetal kidney with lower levels in fetal brain, liver and lung (Maestrini et al. 1996). |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. |
| References | <ol style="list-style-type: none"> 1. Aversa, G.G. <i>et al.</i> (1989) Use of monoclonal antibodies to study <i>in vivo</i> and <i>in vitro</i>-activated lymphocytes. Transplant Proc. 21 (1 Pt 1): 349-50. 2. Van Vliet, S. J. <i>et al.</i> (1995) Species cross reactivity (human-monkey-bovine) of the adhesion structure section mAb. Leucocyte Typing V. Oxford University Press p1607-8. 3. Mizrahi, S. <i>et al.</i> (2007) CD100 on NK cells enhance IFNγ secretion and killing of target cells expressing CD72. PLoS One. 2 (9): e818. 4. Yoshino, N. <i>et al.</i> (2000) Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of cynomolgus monkeys (<i>Macaca fascicularis</i>) by using anti-human cross-reactive antibodies. Exp Anim. 49 (2): 97-110. |
| Storage | <p>Store at -20°C only.</p> <p>This product should be stored undiluted.</p> <p>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.</p> |
| Shelf Life | 18 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 (STAR76...) [RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [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](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Human Anti Mouse IgG1 (HCA036...) [HRP](#)
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 IgG1 NEGATIVE CONTROL:Low Endotoxin \(MCA928EL\)](#)

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| 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 |
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