

Datasheet: MCA4646EL

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| Description: | MOUSE ANTI HUMAN CD335:Low Endotoxin |
| Specificity: | CD335 |
| Other names: | NKp46 |
| Format: | Low Endotoxin |
| Product Type: | Monoclonal Antibody |
| Clone: | 9E2 |
| 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 - 1/200 |
| Immunohistology - Frozen | | | ▪ | |
| Immunohistology - Paraffin | | | ▪ | |
| ELISA | | | ▪ | |
| Immunoprecipitation | | | ▪ | |
| Western Blotting | | | ▪ | |
| Functional Assays | ▪ | | | |

Where this product 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 product for use in their own system using appropriate negative/positive controls.

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| Target Species | Human |
| 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 | None present |
| Carrier Free | Yes |
| Endotoxin Level | <0.01EU/ug |
| Approx. Protein Concentrations | IgG concentration 1.0mg/ml |

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|--------------------------------------|---|
| Immunogen | CD335-Fc fusion protein |
| External Database Links | <p>UniProt: O76036 Related reagents</p> <p>Entrez Gene: 9437 NCR1 Related reagents</p> |
| Synonyms | LY94 |
| Specificity | <p>Mouse anti Human CD335 antibody, clone 9E2 specifically recognizes human NK (natural killer) cell-specific marker CD335, otherwise known as NKp46, a 46kDa type I transmembrane glycoprotein, and the first identified member of the natural cytotoxicity receptor (NCR) family.</p> <p>CD335 is uniquely expressed by all resting and activated NK cells, and considered to be the major NK cell lysis receptor for autologous pathogen-infected and tumour target cells, during natural cytotoxicity responses. Ligands of CD335 include viral haemagglutinins (HAs), and heparan sulphate proteoglycans (HSPGs) on the surface of tumour cells.</p> <p>Mouse anti Human CD335 antibody, clone 9E2 mediates re-directed NK cell cytotoxicity (Yusa et al. 2002) and (Chen et al. 2007).</p> |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul. |
| References | <ol style="list-style-type: none"> 1. Chklovskaya, E. <i>et al.</i> (2004) Reconstitution of dendritic and natural killer-cell subsets after allogeneic stem cell transplantation: effects of endogenous flt3 ligand. Blood. 103 (10): 3860-8. 2. Yusa, S. <i>et al.</i> (2002) SHP-1- and phosphotyrosine-independent inhibitory signaling by a killer cell Ig-like receptor cytoplasmic domain in human NK cells. J Immunol. 168 (10): 5047-57. 3. Chen, Y. <i>et al.</i> (2007) Prostaglandin D2 suppresses human NK cell function via signaling through D prostanoid receptor. J Immunol. 179 (5): 2766-73. 4. Rutigliano, H.M. <i>et al.</i> (2016) Trophoblast Major Histocompatibility Complex Class I Expression Is Associated with Immune-Mediated Rejection of Bovine Fetuses Produced by Cloning. Biol Reprod. 95 (2): 39. |
| Storage | <p>Store at -20°C only.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. 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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