

## Datasheet: MCA2046GA

|                      |                       |
|----------------------|-----------------------|
| <b>Description:</b>  | MOUSE ANTI HUMAN CD56 |
| <b>Specificity:</b>  | CD56                  |
| <b>Other names:</b>  | N-CAM                 |
| <b>Format:</b>       | Purified              |
| <b>Product Type:</b> | Monoclonal Antibody   |
| <b>Clone:</b>        | MEM-188               |
| <b>Isotype:</b>      | IgG2a                 |
| <b>Quantity:</b>     | 0.1 mg                |

## Product Details

**RRID** AB\_324588

### 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](http://www.bio-rad-antibodies.com/protocols).

|                              | Yes | No | Not Determined | Suggested Dilution      |
|------------------------------|-----|----|----------------|-------------------------|
| Flow Cytometry               | ▪   |    |                | 1/25 - 1/50             |
| Immunohistology - Frozen (1) | ▪   |    |                |                         |
| Immunohistology - Paraffin   |     |    | ▪              |                         |
| ELISA                        |     |    | ▪              |                         |
| Immunoprecipitation          | ▪   |    |                |                         |
| Western Blotting (2)         | ▪   |    |                | Non-reducing conditions |

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.

**(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.**

**(2) MEM-188 recognizes CD56 under non-reducing conditions.**

**Target Species** Human

**Product Form** Purified IgG - liquid

**Preparation** Purified IgG prepared by affinity chromatography on Protein A

**Buffer Solution** Phosphate buffered saline

**Preservative Stabilisers** 0.09% Sodium Azide

**Approx. Protein** IgG concentration 1.0mg/ml

## Concentrations

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### External Database

#### Links

**UniProt:**

[P13591](#)   [Related reagents](#)

**Entrez Gene:**

[4684](#)   NCAM1   [Related reagents](#)

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#### Synonyms

NCAM

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#### Specificity

**Mouse anti Human CD56 antibody, clone MEM-188** recognizes CD56 a 140kDa cell surface glycoprotein expressed primarily by natural killer cells and a subset of T cells in the peripheral blood.

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#### Flow Cytometry

Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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#### References

1. Costa, P. *et al* (1997) CD56 Workshop Panel Report. In: Leucocyte typing VI. White cell differentiation antigens. Garland Publishing Inc. New York and London. 271-2.
  2. Prager, E. *et al*. (2001) Induction of hyporesponsiveness and impaired T lymphocyte activation by the CD31 receptor:ligand pathway in T cells. [J Immunol. 166 \(4\): 2364-71.](#)
  3. Staffler G *et al*. (2003) Selective inhibition of T cell activation via CD147 through novel modulation of lipid rafts. [J Immunol. 171 \(4\): 1707-14.](#)
  4. Crisan, M. *et al*. (2008) A perivascular origin for mesenchymal stem cells in multiple human organs. [Cell Stem Cell. 3: 301-13.](#)
  5. Newman, K.C. *et al*. (2006) Cross-talk with myeloid accessory cells regulates human natural killer cell interferon-gamma responses to malaria. [PLoS Pathog. 2: e118.](#)
  6. Apps, R. *et al*. (2011) Ex vivo functional responses to HLA-G differ between blood and decidual NK cells. [Mol Hum Reprod. 17: 577-86.](#)
  7. Aspinall, A.I. *et al*. (2010) CX(3)CR1 and vascular adhesion protein-1-dependent recruitment of CD16(+) monocytes across human liver sinusoidal endothelium. [Hepatology. 51: 2030-9.](#)
  8. Rodriguez JM *et al*. (2015) PyNTTTTGT and CpG Immunostimulatory Oligonucleotides: Effect on Granulocyte/Monocyte Colony-Stimulating Factor (GM-CSF) Secretion by Human CD56+ (NK and NKT) Cells. [PLoS One. 10 \(2\): e0117484.](#)
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#### 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.

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#### Guarantee

18 months from date of despatch.

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#### Health And Safety Information

Material Safety Datasheet documentation #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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#### Regulatory

For research purposes only

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## Related Products

## Recommended Secondary Antibodies

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

## Recommended Negative Controls

### [MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

|                                  |   |                  |   |               |   |
|----------------------------------|---|------------------|---|---------------|---|
| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a> | <b>Worldwide</b> | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a> | <b>Europe</b> | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
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