

Datasheet: MCA2046

Description:	MOUSE ANTI HUMAN CD56
Specificity:	CD56
Other names:	N-CAM
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MEM-188
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	■			1/25 - 1/100
Immunohistology - Frozen (1)	■			1/40
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 Concentrations	IgG concentration 1.0mg/ml

**External Database
Links**

UniProt:

[P13591](#)

[Related reagents](#)

Entrez Gene:

[4684](#)

NCAM1

[Related reagents](#)

Synonyms

NCAM

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.

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

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.](#)

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.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
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
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