![Bio-Rad logo]

Datasheet: MCA1437PE

Description:	MOUSE ANTI HUMAN CD56:RPE
Specificity:	CD56
Other names:	N-CAM
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	C5.9
Isotype:	IgG2b
Quantity:	100 TESTS

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

Human

Product Form

Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
RPE 488nm laser	496	578

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.08% Sodium Azide

0.2% Gelatin

Immunogen

Cell suspension from the acute myelogenous leukemia cell line KG-1a.

External Database Links

UniProt:

P13591   Related reagents

Entrez Gene:

4684   NCAM1   Related reagents

Synonyms

NCAM

Fusion Partners	Spleen cells from immunized Balb/c F_1 were fused with cells from the murine myeloma SP2/0 cell line.
Specificity	**Mouse anti Human CD56 antibody, clone C5.9** recognizes human Neural cell adhesion molecule 1 (NCAM-1), also known as CD56, MSK39 or NKH-1. CD56 isa a 858 amino acid ~120kDa (depending on isoform) single pass type I transmembrane glycoprotein containing 2 fibronectin type-III domains and five Ig-like C2-type domains (UniProt: P13591). CD56 is axpressed on all NK-cells and can be used as a pan-NK marker.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells or 100ul whole blood.
References	1. Freysdottir, J. *et al.* (1999) Gammadelta T cells in Behçet's disease (BD) and recurrent aphthous stomatitis (RAS). Clin Exp Immunol. 118 (3): 451-7.
Further Reading	1. Caligiuri, M. *et al.* (1987) Phenotypic and functional deficiency of natural killer cells in patients with chronic fatigue syndrome. J Immunol. 139 (10): 3306-13. 2. Lanier, L.L. *et al.* (1986) The relationship of CD16 (Leu-11) and Leu-19 (NKH-1) antigen expression on human peripheral blood NK cells and cytotoxic T lymphocytes. J Immunol. 136 (12): 4480-6. 3. Schmidt, R.E. *et al.* (1986) A subset of natural killer cells in peripheral blood displays a mature T cell phenotype. J Exp Med. 164 (1): 351-6.
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	6 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10050 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10050.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG2b NEGATIVE CONTROL:RPE (MCA691PE)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A)
HUMAN SEROBLOCK (BUF070B)