Datasheet: MCA4646A488

Description:	MOUSE ANTI HUMAN CD335:Alexa Fluor® 488
Specificity:	CD335
Other names:	NKp46
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	9E2
Isotype:	IgG1
Quantity:	100 TESTS/1ml

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 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.

Target Species

Human

Product Form

Purified IgG conjugated to Alexa Fluor 488 - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
Alexa Fluor®488	495	519

Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN_3)
1% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.05mg/ml

Immunogen	CD335-Fc fusion protein
External Database Links	**UniProt:** O76036 Related reagents **Entrez Gene:** 9437 NCR1 Related reagents
Synonyms	LY94
RRID	AB_1719940
Specificity	**Mouse anti Human CD335 antibody, clone 9E2** 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. 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. Mouse anti Human CD335 antibody, clone 9E2 mediates re-directed NK cell cytotoxicity (Yusa *et al.* 2002, Chen *et al.* 2007).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul.
References	1. Yusa, S. *et al.* (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. 2. Chklovskaia, E. *et al.* (2004) Reconstitution of dendritic and natural killer-cell subsets after allogeneic stem cell transplantation: effects of endogenous flt3 ligand. Blood. 103 (10): 3860-8. 3. Chen, Y. *et al.* (2007) Prostaglandin D2 suppresses human NK cell function via signaling through D prostanoid receptor. J Immunol. 179 (5): 2766-73.
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.
Guarantee	12 months from date of despatch
Acknowledgements	This product is provided under an intellectual property licence from Life Technologies

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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA4646A488 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 488 (MCA928A488)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A)
HUMAN SEROBLOCK (BUF070B)

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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
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