

Datasheet: MCA4643A488T

Description:	MOUSE ANTI HUMAN CD96:Alexa Fluor® 488
Specificity:	CD96
Other names:	TACTILE
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	NK92.39
Isotype:	IgG1
Quantity:	25 TESTS/0.25ml

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	■			

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)		
Approx. Protein Concentrations	IgG concentration 0.05mg/ml		
Immunogen	Natural killer 92 (NK92) cell line.		
External Database Links	UniProt: P40200 Related reagents		

Entrez Gene:[10225](#) CD96 [Related reagents](#)

Specificity	Mouse anti Human CD96 antibody, clone NK92.39 recognizes human CD96, otherwise known as Tactile (T cell-activated increased late expression), a type I transmembrane glycoprotein expressed at low levels on peripheral resting T and NK cells, which increases following activation.
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CD96 stimulates the cytotoxicity of activated NK cells, and promotes the adhesion of NK cells to target cells expressing CD155/poliovirus receptor ([PVR](#)) and the transfer of target cell PVR to the NK cells. CD96 can be used in the immunophenotyping of T-cell acute lymphoblastic leukaemias ([ALL](#)) and acute myeloid leukaemias ([AML](#)), and may play a role in the recognition of CD155-expressing tumours by NK cells.

Mouse anti Human CD96 antibody, clone NK92.39 blocks the binding of soluble CD155 to NK92 cells ([Fuchs et al. 2004](#)).

Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
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References	1. Fuchs, A. <i>et al.</i> (2004) Cutting edge: CD96 (tactile) promotes NK cell-target cell adhesion by interacting with the poliovirus receptor (CD155). J Immunol. 172 (7): 3994-8.
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Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. 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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Shelf Life	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 Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA928A488\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)
[HUMAN SEROBLOCK \(BUF070B\)](#)

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