

Datasheet: MCA4643A647

**BATCH NUMBER 173652**

<b>Description:</b>	MOUSE ANTI HUMAN CD96:Alexa Fluor® 647
<b>Specificity:</b>	CD96
<b>Other names:</b>	TACTILE
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	NK92.39
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 647 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®647	650	665
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
<b>Approx. Protein</b>	IgG concentration 0.05mg/ml		

## Concentrations

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**Immunogen** Natural killer 92 (NK92) cell line.

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## External Database Links

**UniProt:**

[P40200](#)    [Related reagents](#)

**Entrez Gene:**

[10225](#)    CD96    [Related reagents](#)

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**RRID** AB\_1628791

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## 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.

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](#)).

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## Flow Cytometry

Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul.

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## References

1. Fuchs, A. *et al.* (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

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.

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## Guarantee

12 months from date of despatch

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## Acknowledgements

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**Health And Safety Information**      Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA4643A647>

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**Regulatory**                      For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

### Recommended Useful Reagents

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

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

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
'M450640:260413'

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