

## Datasheet: MCA4643A647

|                      |                                        |
|----------------------|----------------------------------------|
| <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.

|                                |                                                                                               |                     |                   |
|--------------------------------|-----------------------------------------------------------------------------------------------|---------------------|-------------------|
| Target Species                 | Human                                                                                         |                     |                   |
| Product Form                   | Purified IgG conjugated to Alexa Fluor® 647 - liquid                                          |                     |                   |
| Max Ex/Em                      | Fluorophore                                                                                   | Excitation Max (nm) | Emission Max (nm) |
|                                | Alexa Fluor®647                                                                               | 650                 | 665               |
| 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 <sub>3</sub> )                                                        |                     |                   |
| Approx. Protein Concentrations | IgG concentration 0.05mg/ml                                                                   |                     |                   |
| Immunogen                      | Natural killer 92 (NK92) cell line.                                                           |                     |                   |
| External Database Links        | UniProt:<br><a href="#">P40200</a> <a href="#">Related reagents</a>                           |                     |                   |

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

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specificity</b>                   | <p><b>Mouse anti Human CD96 antibody, clone NK92.39</b> 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.</p> <p>CD96 stimulates the cytotoxicity of activated NK cells, and promotes the adhesion of NK cells to target cells expressing CD155/poliovirus receptor (<a href="#">PVR</a>) and the transfer of target cell PVR to the NK cells. CD96 can be used in the immunophenotyping of T-cell acute lymphoblastic leukaemias (<a href="#">ALL</a>) and acute myeloid leukaemias (<a href="#">AML</a>), and may play a role in the recognition of CD155-expressing tumours by NK cells.</p> <p>Mouse anti Human CD96 antibody, clone NK92.39 blocks the binding of soluble CD155 to NK92 cells (<a href="#">Fuchs et al. 2004</a>).</p>   |
| <b>Flow Cytometry</b>                | Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>References</b>                    | 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). <a href="#">J Immunol. 172 (7): 3994-8.</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage</b>                       | <p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Shelf Life</b>                    | 18 months from date of despatch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Acknowledgements</b>              | <p>This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or <a href="mailto:outlicensing@thermofisher.com">outlicensing@thermofisher.com</a></p> |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Regulatory</b>                    | For research purposes only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Related Products

### Recommended Negative Controls

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

### Recommended Useful Reagents

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

|                                  |                                                                                                                                         |                  |                                                                                                                                                 |               |                                                                                                                                                     |
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'M300498:170105'

**Printed on 05 May 2018**

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