

## Datasheet: MCA1420A647

<b>Description:</b>	RAT ANTI MOUSE CD134:Alexa Fluor® 647
<b>Specificity:</b>	CD134
<b>Other names:</b>	OX40
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	OX-86
<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

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.

<b>Target Species</b>	Mouse						
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 647 - liquid						
<b>Max Ex/Em</b>	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>Alexa Fluor®647</td> <td>650</td> <td>665</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	Alexa Fluor®647	650	665
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
Alexa Fluor®647	650	665					
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
<b>Buffer Solution</b>	Phosphate buffered saline						
<b>Preservative</b>	0.09% Sodium Azide						
<b>Stabilisers</b>	1% Bovine Serum Albumin						
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml						
<b>Immunogen</b>	CHO cells transfected with murine OX40.						
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P47741</a> <a href="#">Related reagents</a>						

**Entrez Gene:**

[22163](#) Tnfrsf4 [Related reagents](#)

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<b>Synonyms</b>	Ox40, Txgp1
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<b>Fusion Partners</b>	Spleen cells from immunized AO rats were fused with cells of the mouse NS1 myeloma cell line.
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<b>Specificity</b>	<p><b>Rat anti Mouse CD134 antibody, clone OX-86</b> recognizes murine OX40 (CD134), a cell surface antigen expressed only by activated T lymphocytes.</p> <p>Rat anti Mouse CD134 antibody, clone OX-86 is routinely tested on concanavalin A activated mouse splenocytes.</p>
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<b>Flow Cytometry</b>	<p>Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.</p> <p>The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR (<a href="#">BUF041A/B</a>).</p>
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<b>References</b>	<ol style="list-style-type: none"><li>1. Higgins, L.M. <i>et al.</i> (1999) Regulation of T cell activation <i>in vitro</i> and <i>in vivo</i> by targeting the OX40-OX40 ligand interaction: amelioration of ongoing inflammatory bowel disease with an OX40-IgG fusion protein, but not with an OX40 ligand-IgG fusion protein. <a href="#">J Immunol. 162 (1): 486-93.</a></li><li>2. Lavelle, E.C. <i>et al.</i> (2003) Cholera toxin promotes the induction of regulatory T cells specific for bystander antigens by modulating dendritic cell activation. <a href="#">J Immunol. 171 (5): 2384-92.</a></li><li>3. Lee, S.J. <i>et al.</i> (2004) 4-1BB and OX40 dual costimulation synergistically stimulate primary specific CD8 T cells for robust effector function. <a href="#">J Immunol. 173 (5): 3002-12.</a></li><li>4. Maenz, M. <i>et al.</i> (2011) A comprehensive flow-cytometric analysis of graft infiltrating lymphocytes, draining lymph nodes and serum during the rejection phase in a fully allogeneic rat cornea transplant model. <a href="#">Mol Vis. 17: 420-9.</a></li><li>5. Zaini, J. <i>et al.</i> (2007) OX40 ligand expressed by DCs costimulates NKT and CD4+ Th cell antitumor immunity in mice. <a href="#">J Clin Invest. 117: 3330-8.</a></li><li>6. Andarini, S. <i>et al.</i> (2004) Adenovirus vector-mediated in vivo gene transfer of OX40 ligand to tumor cells enhances antitumor immunity of tumor-bearing hosts. <a href="#">Cancer Res. 64: 3281-7.</a></li><li>7. Malmström, V. <i>et al.</i> (2001) CD134L expression on dendritic cells in the mesenteric lymph nodes drives colitis in T cell-restored SCID mice. <a href="#">J Immunol. 166: 6972-81.</a></li><li>8. McHugh, R.S. <i>et al.</i> (2002) CD4(+)CD25(+) immunoregulatory T cells: gene expression analysis reveals a functional role for the glucocorticoid-induced TNF receptor. <a href="#">Immunity. 16: 311-23.</a></li><li>9. Thauvat, O. <i>et al.</i> (2010) Immune responses elicited in tertiary lymphoid tissues display distinctive features. <a href="#">PLoS One. 5: e11398.</a></li><li>10. Wythe, S.E. <i>et al.</i> (2012) OX40 Ligand and Programmed Cell Death 1 Ligand 2 Expression on Inflammatory Dendritic Cells Regulates CD4 T Cell Cytokine Production in the Lung during Viral Disease <a href="#">J Immunol. 188: 1647-55.</a></li><li>11. Reynolds, C. <i>et al.</i> (2014) Elongated TCR alpha chain CDR3 favors an altered CD4 cytokine profile. <a href="#">BMC Biol. 12: 32.</a></li></ol>
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<b>Further Reading</b>	<ol style="list-style-type: none"><li>1. Takeda, K. <i>et al.</i> (2000) CD27-mediated activation of murine NK cells. <a href="#">J Immunol. 164 (4): 1741-5.</a></li></ol>
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<b>Storage</b>	<p>Store at +4°C for one month or at -20°C for longer.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light.</p>
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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 #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA1211A647\)](#)

### Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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