

## Datasheet: MCA1420PE

<b>Description:</b>	RAT ANTI MOUSE CD134:RPE
<b>Specificity:</b>	CD134
<b>Other names:</b>	OX40
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	OX-86
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS

## 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 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	Mouse		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared by affinity chromatography on Protein G supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% sodium azide (NaN <sub>3</sub> )		
Stabilisers	1% bovine serum albumin		
	5% sucrose		

<b>Immunogen</b>	CHO cells transfected with murine OX40.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P47741</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">22163</a>    Tnfrsf4    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Ox40, Txgp1
<b>RRID</b>	AB_321577
<b>Fusion Partners</b>	Spleen cells from immunized AO rats were fused with cells of the mouse NS1 myeloma cell line.
<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>
<b>Flow Cytometry</b>	<p>Use 10µl of the suggested working dilution to label 10<sup>6</sup> cells in 100µl.</p> <p>The Fc region of monoclonal antibodies may bind to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (<a href="#">BUF041A</a>/<a href="#">BUF041B</a>).</p>
<b>References</b>	<ol style="list-style-type: none"> <li>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>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>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>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>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>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>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>Thaunat, 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>Maenz, M. <i>et al.</i> (2011) A comprehensive flow-cytometric analysis of graft infiltrating</li> </ol>

lymphocytes, draining lymph nodes and serum during the rejection phase in a fully allogeneic rat cornea transplant model. [Mol Vis. 17: 420-9.](#)

10. Wythe, S.E. *et al.* (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 [J Immunol. 188: 1647-55.](#)

11. Reynolds, C. *et al.* (2014) Elongated TCR alpha chain CDR3 favors an altered CD4 cytokine profile. [BMC Biol. 12: 32.](#)

<b>Further Reading</b>	1. Takeda, K. <i>et al.</i> (2000) CD27-mediated activation of murine NK cells. <a href="#">J Immunol. 164 (4): 1741-5.</a>
<b>Storage</b>	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20487 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1420PE">https://www.bio-rad-antibodies.com/SDS/MCA1420PE</a> 20487
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Useful Reagents

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

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
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