

## Datasheet: MCA1420

<b>Description:</b>	RAT ANTI MOUSE CD134
<b>Specificity:</b>	CD134
<b>Other names:</b>	OX40
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	OX-86
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.25 mg

## 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	▪			1/10 - 1/50
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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>	Mouse
<b>Product Form</b>	Purified IgG - liquid
<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 Stabilisers</b>	0.09% sodium azide (NaN <sub>3</sub> )

<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<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_321575
<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>	Use 10µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl
<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> </ol>

8. Thauinat, O. *et al.* (2010) Immune responses elicited in tertiary lymphoid tissues display distinctive features. [PLoS One. 5: e11398.](#)
9. Maenz, M. *et al.* (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. [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>	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.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1420">https://www.bio-rad-antibodies.com/SDS/MCA1420</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®800</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight®800</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</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](http://bio-rad-antibodies.com/datasheets)

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Printed on 12 Aug 2023

