

Datasheet: MCA1420FB

Description:	RAT ANTI MOUSE CD134:FITC
Specificity:	CD134
Other names:	OX40
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	OX-86
Isotype:	IgG1
Quantity:	0.5 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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	

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.

Target Species	Mouse		
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
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		
	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml		
Immunogen	CHO cells transfected with murine OX40.		
External Database Links	UniProt:		

Entrez Gene:

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

Synonyms	Ox40, Txgp1
Fusion Partners	Spleen cells from immunized AO rats were fused with cells of the mouse NS1 myeloma cell line.
Specificity	Rat anti Mouse CD134 antibody, clone OX-86 recognizes murine OX40 (CD134), a cell surface antigen expressed only by activated T lymphocytes. Rat anti Mouse CD134 antibody, clone OX-86 is routinely tested on concanavalin A activated mouse splenocytes.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul. 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 (BUF041A/B).
References	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. J Immunol. 162 (1): 486-93. 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. J Immunol. 171 (5): 2384-92. 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. J Immunol. 173 (5): 3002-12. 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. Mol Vis. 17: 420-9. 5. Zaini, J. <i>et al.</i> (2007) OX40 ligand expressed by DCs costimulates NKT and CD4+ Th cell antitumor immunity in mice. J Clin Invest. 117: 3330-8. 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. Cancer Res. 64: 3281-7. 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. J Immunol. 166: 6972-81. 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. Immunity. 16: 311-23. 9. Thauvat, O. <i>et al.</i> (2010) Immune responses elicited in tertiary lymphoid tissues display distinctive features. PLoS One. 5: e11398. 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 J Immunol. 188: 1647-55. 11. Reynolds, C. <i>et al.</i> (2014) Elongated TCR alpha chain CDR3 favors an altered CD4 cytokine profile. BMC Biol. 12: 32.
Further Reading	1. Takeda, K. <i>et al.</i> (2000) CD27-mediated activation of murine NK cells. J Immunol. 164 (4): 1741-5.
Storage	Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. 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.

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:FITC \(MCA1211F\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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