

Datasheet: MCA1420F

Description:	RAT ANTI MOUSE CD134:FITC
Specificity:	CD134
Other names:	OX40
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	OX-86
Isotype:	IgG1
Quantity:	0.1 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	■			Neat - 1/10
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	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1 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 for one month or at -20°C for longer.

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.

Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL:FITC \(MCA1211F\)](#)

Recommended Useful Reagents

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

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

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