

Datasheet: MCA730F

Description:	MOUSE ANTI RAT CD134:FITC
Specificity:	CD134
Other names:	OX40
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	OX-40
Isotype:	IgG2b
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
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	Rat		
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 0.1 mg/ml		
Immunogen	Phytohemagglutinin (PHA) activated Rat Lymph Node Cells.		
External Database Links	UniProt:		

Entrez Gene:

[25572](#) Tnfrsf4 [Related reagents](#)

Synonyms	Ox40, Txgp11
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells from the NS0/1 Ag4.1 mouse myeloma cell line.
Specificity	Mouse anti Rat CD134 antibody, clone OX-40 recognizes the OX40 antigen which is present on activated T lymphocytes that also express CD4 (Paterson <i>et al.</i> 1987). The antigen is a glycoprotein of approximately 50 kDa which is related in sequence to the low affinity Nerve Growth Factor Receptor (Mallett <i>et al.</i> 1990). Mouse anti Rat CD134 antibody, clone OX-40 is not mitogenic, but does enhance some T cell responses (Paterson <i>et al.</i> 1987).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	1. Paterson, D.J. <i>et al.</i> (1987) Antigens of activated rat T lymphocytes including a molecule of 50,000 Mr detected only on CD4 positive T blasts. Mol Immunol. 24 (12): 1281-90. 2. Mallett, S. <i>et al.</i> (1990) Characterization of the MRC OX40 antigen of activated CD4 positive T lymphocytes--a molecule related to nerve growth factor receptor. EMBO J. 9 (4): 1063-8. 3. Richardson, P.R. <i>et al.</i> (1996) Immunocytochemical study of retinal diode laser photocoagulation in the rat. Br J Ophthalmol. 80 (12): 1092-8. 4. Cousins, L. <i>et al.</i> (2006) Eosinophilic bowel disease controlled by the BB rat-derived lymphopenia/Gimap5 gene. Gastroenterology. 131 (5): 1475-85. 5. Snelgrove RJ <i>et al.</i> (2012) OX40 ligand fusion protein delivered simultaneously with the BCG vaccine provides superior protection against murine <i>Mycobacterium tuberculosis</i> infection. J Infect Dis. 205 (6): 975-83. 6. Stephens, L.A. <i>et al.</i> (2004) Phenotypic characterization of regulatory CD4+CD25+ T cells in rats. Int Immunol. 16: 365-75. 7. Volovitz, I. <i>et al.</i> (2010) T cell vaccination induces the elimination of EAE effector T cells: analysis using GFP-transduced, encephalitogenic T cells. J Autoimmun. 35 (2): 135-44. 8. Stephens, L.A. <i>et al.</i> (2004) Phenotypic characterization of regulatory CD4+CD25+ T cells in rats. Int Immunol. 16: 365-75. 9. Giorgini, A. and Noble, A. (2007) Blockade of chronic graft-versus-host disease by alloantigen-induced CD4+CD25+Foxp3+ regulatory T cells in nonlymphopenic hosts. J Leukoc Biol. 82: 1053-61. 10. Albillos, A. <i>et al.</i> (2010) The biological response modifier AM3 attenuates the inflammatory cell response and hepatic fibrosis in rats with biliary cirrhosis. Gut. 59: 943-52. 11. Humphreys, I.R. <i>et al.</i> (2003) A critical role for OX40 in T cell-mediated immunopathology during lung viral infection. J Exp Med. 198: 1237-42. 12. Walker, L.S. <i>et al.</i> (1999) Compromised OX40 function in CD28-deficient mice is linked with failure to develop CXC chemokine receptor 5-positive CD4 cells and germinal centers. J Exp Med. 190: 1115-22. 13. Thaunat, O. <i>et al.</i> (2010) Immune responses elicited in tertiary lymphoid tissues display distinctive features. PLoS One. 5: e11398. 14. Lühder, F. <i>et al.</i> (2017) Laquinimod enhances central nervous system barrier functions. Neurobiol Dis. Feb 21. pii: S0969-9961(17)30031-1. [Epub ahead of print]

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.
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

[MOUSE IgG2b NEGATIVE CONTROL:FITC \(MCA691F\)](#)

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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Printed on 19 May 2018