

Datasheet: MCA730F

BATCH NUMBER 171853

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 A 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	<p>UniProt: P15725 Related reagents</p> <p>Entrez Gene: 25572 Tnfrsf4 Related reagents</p>
Synonyms	Ox40, Txgp11
RRID	AB_321580
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells from the NS0/1 Ag4.1 mouse myeloma cell line.
Specificity	<p>Mouse anti Rat CD134 antibody, clone OX-40 recognizes the OX40 antigen which is present on activated T lymphocytes that also express CD4 (Paterson et al. 1987).</p> <p>The antigen is a glycoprotein of approximately 50 kDa which is related in sequence to the low affinity Nerve Growth Factor Receptor (Mallett et al. 1990).</p> <p>Mouse anti Rat CD134 antibody, clone OX-40 is not mitogenic, but does enhance some T cell responses (Paterson et al. 1987).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 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. 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. 7. Stephens, L.A. <i>et al.</i> (2004) Phenotypic characterization of regulatory CD4+CD25+ T cells in rats. Int Immunol. 16: 365-75.

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13. Lühder, F. *et al.* (2017) Laquinimod enhances central nervous system barrier functions. [Neurobiol Dis. 102: 60-69.](#)
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Storage 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. This product is photosensitive and should be protected from light.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA730F
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Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M445938:251006'

Printed on 06 Oct 2025