

Datasheet: MCA730GA

Description:	MOUSE ANTI RAT CD134
Specificity:	CD134
Other names:	OX40
Format:	Purified
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	■			1/10 - 1/50
Immunohistology - Frozen	■			
Immunohistology - Paraffin			■	
Immunoprecipitation	■			

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 - liquid
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
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 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. 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 #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG2b (HCA038...)	FITC , HRP

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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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