

## Datasheet: MCA730GA

|                      |                      |
|----------------------|----------------------|
| <b>Description:</b>  | MOUSE ANTI RAT CD134 |
| <b>Specificity:</b>  | CD134                |
| <b>Other names:</b>  | OX40                 |
| <b>Format:</b>       | Purified             |
| <b>Product Type:</b> | Monoclonal Antibody  |
| <b>Clone:</b>        | OX-40                |
| <b>Isotype:</b>      | IgG2b                |
| <b>Quantity:</b>     | 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](http://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.

|                                       |   |
|---------------------------------------|---|
| <b>Target Species</b>                 | Rat   |
| <b>Product Form</b>                   | Purified IgG - liquid   |
| <b>Preparation</b>                    | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |
| <b>Buffer Solution</b>                | Phosphate buffered saline   |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide  |
| <b>Carrier Free</b>                   | Yes   |
| <b>Approx. Protein Concentrations</b> | IgG concentration 1.0 mg/ml   |
| <b>Immunogen</b>                      | Phytohemagglutinin (PHA) activated Rat Lymph Node Cells.                                      |
| <b>External Database Links</b>        | <b>UniProt:</b>   |

**Entrez Gene:**

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

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**Synonyms**   Ox40, Txgp11

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**RRID**   AB\_2207361

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**Fusion Partners**   Spleen cells from immunised BALB/c mice were fused with cells from the NS0/1 Ag4.1 mouse myeloma cell line.

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**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 \*et al.\* 1987](#)).

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](#)).

Mouse anti Rat CD134 antibody, clone OX-40 is not mitogenic, but does enhance some T cell responses ([Paterson \*et al.\* 1987](#)).

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**Flow Cytometry**   Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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**References**

1. Paterson, D.J. *et al.* (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. *et al.* (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. *et al.* (1996) Immunocytochemical study of retinal diode laser photocoagulation in the rat. [Br J Ophthalmol. 80 \(12\): 1092-8.](#)
4. Cousins, L. *et al.* (2006) Eosinophilic bowel disease controlled by the BB rat-derived lymphopenia/Gimap5 gene. [Gastroenterology. 131 \(5\): 1475-85.](#)
5. Snelgrove RJ *et al.* (2012) OX40 ligand fusion protein delivered simultaneously with the BCG vaccine provides superior protection against murine *Mycobacterium tuberculosis* infection. [J Infect Dis. 205 \(6\): 975-83.](#)
6. Stephens, L.A. *et al.* (2004) Phenotypic characterization of regulatory CD4+CD25+ T cells in rats. [Int Immunol. 16: 365-75.](#)
7. Volovitz, I. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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. Thauvat, O. *et al.* (2010) Immune responses elicited in tertiary lymphoid tissues display distinctive features. [PLoS One. 5: e11398.](#)

14. Lühder, F. *et al.* (2017) Laquinimod enhances central nervous system barrier functions. [Neurobiol Dis. Feb 21. pii: S0969-9961\(17\)30031-1. \[Epub ahead of print\]](#)
15. Cheng, H.Y. *et al.* (2018) Bioimaging of alloantigen-stimulated regulatory T cells in rat vascularized composite allotransplantation. [PLoS One. 13 \(9\): e0203624.](#)

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**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.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

- Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
- Goat Anti Mouse IgG (STAR77...) [HRP](#)
- Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
- Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)
- Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
- Goat Anti Mouse IgG (STAR76...) [RPE](#)
- Goat Anti Mouse IgG (STAR70...) [FITC](#)
- Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
- Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
- Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®680](#), [DyLight®800](#), [FITC](#), [HRP](#)

### Recommended Negative Controls

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

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