

Datasheet: MCA1420GA

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

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 - 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 mg/ml
Immunogen	CHO cells transfected with murine OX40.

**External Database
Links**

UniProt:

[P47741](#) [Related reagents](#)

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.

References

1. Higgins, L.M. *et al.* (1999) Regulation of T cell activation *in vitro* and *in vivo* 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. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (2010) Immune responses elicited in tertiary lymphoid tissues display distinctive features. [PLoS One. 5: e11398.](#)
10. Wythe, S.E. *et al.* (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. *et al.* (2014) Elongated TCR alpha chain CDR3 favors an altered CD4 cytokine profile. [BMC Biol. 12: 32.](#)

Further Reading

1. Takeda, K. *et al.* (2000) CD27-mediated activation of murine NK cells. [J Immunol. 164 \(4\): 1741-5.](#)

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

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®649 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL \(MCA1211\)](#)

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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