Datasheet: MCA1420

BATCH NUMBER 169203

Description:	RAT ANTI MOUSE CD134
Specificity:	CD134
Other names:	OX40
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	OX-86
Isotype:	IgG1
Quantity:	0.25 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 product 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 product 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 (NaN_3)

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 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
RRID	AB_321575
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 10µl of the suggested working dilution to label 10^6 cells in 100µl
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. 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. 3. 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. 4. 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. 5. 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. 6. 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. 7. 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.

8. Thaunat, O. *et al.* (2010) Immune responses elicited in tertiary lymphoid tissues display distinctive features. PLoS One. 5: e11398.
9. 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.
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	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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1420 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®550, DyLight®650, DyLight®800
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos., Biotin
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

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