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TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

Anti-Rat CD134 (OX40) Monoclonal Antibody

Catalogue#	Format	Size	Concentration	Isotype Control
CL040AP	Purified	250ug	1.0 mg/ml	CLCMG2B00
CL040B	Biotin	100ug	0.1 mg/ml	CLCMG2B15
CL040F	FITC	100ug	0.1 mg/ml	CLCMG2B01
CL040PE	PE	50ug	0.1 mg/ml	CLCMG2B04

Isotype: Mouse IgG2b

DESCRIPTION:

Cedarlane's anti-rat CD134 (OX40) monoclonal antibody recognizes an antigen related to NGF on activated T cells that also express CD4. It detects a single chain of 51-55 kDa (unreduced) and 47-51 kDa (reduced) in immunoprecipitation assay¹. OX40/OX40L interaction has been shown to deliver a potent costimulatory signal to the CD4⁺ T cell⁴. While mouse OX40 shows 90% homology with rat, it is expressed on both CD4⁺ and CD8⁺ cells in the mouse. This antibody was shown to block binding of OX40L to OX40³.

This antibody is suitable for use in flow cytometry and immunohistochemistry (frozen sections). It has also been reported as suitable for use in protein purification⁵.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography).

Biotin, FITC and PE: Biotin/FITC/PE conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/mL.

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE PE conjugates. For long term storage (**Purified, Biotin, FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

Continued Overleaf...

For more information or to place an order please contact...

CEDARLANE®
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website: www.cedarlanelabs.com • e-mail: info@cedarlanelabs.com

SPECIFICATIONS:

Clone: OX-40

Hybridoma Production:

Immunization: Immunogen: Phytohaemagglutinin-activated rat lymph node cells
Donor: Mouse spleen

Fusion Partner: NS1/1.Ag4.1 cell line

Specificity: Rat CD134 (OX40)

Ig Class: Mouse IgG2b

Format: Purified Ig buffered in PBS and 0.02% NaN₃. (Purified from ascites fluid via Protein G Chromatography).

TEST RESULTS:

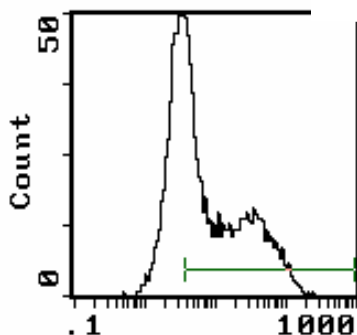
Tissue Distribution by Flow Cytometry Analysis:

Rat Strain: Wistar

Cell Concentration : 1x10⁶ cells per test

Antibody Concentration Used: 0.2 µg/10⁶ cells

Isotypic Control: Mouse IgG2b (CLCMG2B00)



CL040AP (Anti-Rat CD134)

Cell Source: Con-A activated Spleen Cells
Percentage of cells stained above control: 39.7%

**N.B. Appropriate control samples should always be included in any labeling studies.
* For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

Continued Overleaf....

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**: 1281-1290.
- 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. *The EMBO Journal.* **9**(4): 1063-1068.
- 3) Al-Shamkhani, A., *et al.* (1996). OX40 is differentially expressed on activated rat and mouse T cells and is the sole receptor for the OX40 ligand. *Eur. J. Immunol.* **26**: 1695-1699.
- 4) Tittle, T.V., *et al.* (1997). Expression of the T-Cell activation antigen, OX-40, identifies alloreactive T Cells in acute graft-versus-host-disease. *Blood.* **89**(12): 4652-4658.
- 5) Al-Shamkhani, A., *et al.* (1997). Affinity and kinetics of the interaction between soluble trimeric OX40 ligand, a member of the tumor necrosis factor superfamily, and its receptor OX40 on activated T cells. *J. Biol. Chem.* **272**(8): 5275-5282.

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