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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

TECHNICALLY *Speaking*

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

Purified Anti-Mouse H-2K^bD^b Monoclonal Antibody-Ascites

CL9007NA

LOT:

DESCRIPTION:

Cedarlane's anti-mouse H-2K^bD^b monoclonal antibody is specific for cells expressing the H-2K antigen coded for by the b haplotype and for cells expressing the H-2D antigen coded for by the b haplotype.

PRESENTATION:

1.0 mg purified Ig buffered in PBS, no preservative.

STORAGE/STABILITY:

Stable at 4°C. For long term storage, aliquot and freeze unused portions at -20°C in volumes appropriate for single usage. Avoid repeated freeze/thaw cycles. Handle under aseptic conditions.

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

CEDARLANE®
LABORATORIES LIMITED



*toll free: 1-800-268-5058
in North America*

phone: (905) 878-8891 • fax: (905) 878-7800

5516 - 8th Line, R.R.#2, Hornby, Ontario, CANADA L0P 1E0

or visit our website for a list of our international distributors including contact information

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

SPECIFICATIONS:

Clone: 5041.16.1

Hybridoma Production:

Immunization: Recipient: CBA/J

Donor: bm12 (thymus, lymph node and spleen cells)

Fusion Partner: NS-1

Specificity: Mouse H-2K^bD^b

Ig Class: Mouse IgG_{2a}

Presentation: Purified IgG buffered in PBS, no preservative (purified from ascitic fluid via protein G affinity chromatography).

Strain Distribution: H-2K^b and/or H-2D^b positive strains

Antibody Concentration: 1 mg/ml

RECOMMENDED METHOD FOR DEPLETING A CELL POPULATION OF H-2K^b AND/OR H-2D^b BEARING LYMPHOCYTES:

1. Prepare a cell suspension from the appropriate tissue in Cedarlane Cytotoxicity Medium¹ or equivalent. Remove red cells and dead cells (where necessary) by purification of viable lymphocytes on Cedarlane Lympholyte[®]-M density cell separation medium. After washing, adjust the cell concentration to 1×10^7 cells per ml in Cytotoxicity Medium.
2. Add the antibody to a final concentration of 1:100 and mix. Alternatively, pellet the cells and resuspend in antibody diluted 1:100 in Cytotoxicity Medium.
3. Incubate for 60 minutes at 4°C.
4. Centrifuge to pellet the cells and discard the supernatant
5. Resuspend to the original volume in Cedarlane Low-Tox[®]-M Rabbit Complement, diluted to the appropriate concentration in Cytotoxicity Medium. (Recommended concentration included with each batch of Low-Tox[®]-M Rabbit Complement.)
6. Incubate for 60 minutes at 37°C.
7. Monitor for percent cytotoxicity at this stage, before further processing. For this purpose remove a small sample from each tube, dilute 1:10 with medium, and add 1/10 volume of 1% Trypan Blue. After 3-5 minutes, score live versus dead cells in a haemocytometer.
8. For functional studies, remove the dead cells from the treated groups before further processing, particularly if the treated cells are to be cultured. This can be done by layering the treated cell suspensions over an equal volume of Lympholyte[®]-M cell suspension separation medium and centrifuging at room temperature as per the instructions provided. Live cells will form a layer at the interface, while the dead cells pellet. The interface can then be collected and washed in Cytotoxicity Medium before being resuspended in the appropriate medium for further processing. Alternately, the cells can be washed and resuspended in the appropriate medium for further processing immediately after Step 6., provided that the dead cells will not interfere with subsequent assays.

RECOMMENDED METHOD FOR DETERMINING PERCENT OF H-2K^b AND/OR H-2D^b BEARING CELLS IN A POPULATION:

1. Prepare a cell suspension from the appropriate tissue in Cedarlane Cytotoxicity Medium¹ or equivalent. Remove red cells and dead cells (where necessary) by purification of viable lymphocytes on Cedarlane Lympholyte[®]-M density cell separation medium. After washing, adjust the cell concentration to 1×10^6 cells per ml in Cytotoxicity Medium.
2. Add the antibody to a final concentration of 1:1000 and mix.
3. Incubate for 60 minutes at 4°C.
4. Centrifuge to pellet the cells and discard the supernatant.
5. Resuspend to the original volume in Cedarlane Low-Tox[®]-M Rabbit Complement³ diluted to the appropriate concentration in Cytotoxicity Medium. (Recommended concentration included with each batch of Low-Tox[®]-M Rabbit Complement.
6. Incubate for 60 minutes at 37°C.
7. Place on ice.
8. Add Trypan Blue, 10% by volume of 1% Trypan Blue (w/v) added 3-5 minutes before scoring works well. Score live versus dead cells in a haemocytometer. Cytotoxic Index (C.I.) can be calculated as follows:

$$\text{C.I.} = 100 \times \frac{\% \text{ cyt. (antibody + complement)} - \% \text{ cyt. (complement alone)}}{100 - \% \text{ cyt. (complement alone)}}$$

NOTES:

1. Cedarlane Cytotoxicity Medium is RPMI-1640 with 25mM Hepes buffer and 0.3% bovine serum albumin (BSA). BSA is substituted for the conventionally used fetal calf serum (FCS) because we have found that many batches of FCS contain complement dependent cytotoxins to mouse lymphocytes, thus increasing the background killing in the presence of complement. We recommend that cells not be exposed to FCS prior to or during exposure to antibody and complement. Some batches of BSA also contain complement dependent cytotoxins, resulting in the same problem. We screen for batches of BSA giving low background in the presence of complement and use the selected BSA for preparing Cedarlane Cytotoxicity Medium.
2. Cedarlane Lympholyte[®]-M cell separation medium is density separation medium designed specifically for the isolation of viable mouse lymphocytes. This separation medium provides a high and non-selective recovery of viable mouse lymphocytes, removing red cells and dead cells. The density of this medium is 1.087-1.088. Isolation of mouse lymphocytes on cell separation medium of density 1.077 will result in high and selective loss of lymphocytes and should be avoided.
3. Rabbit serum provides the most potent source of complement for use with antibodies to mouse cell surface antigens. However, rabbit serum itself is very toxic to mouse lymphocytes. Cedarlane Low-Tox[®]-M Rabbit Complement is absorbed to remove toxicity to mouse lymphocytes, while maintaining its high complement activity. When used in conjunction with Cedarlane Cytotoxicity Medium, this reagent provides a highly potent source of complement with minimal background toxicity.

ANTIBODY TITRATION:

Cell Source: Splenocytes

Donors: C57BL/6

Cell Concentration: 1×10^6 cells per ml

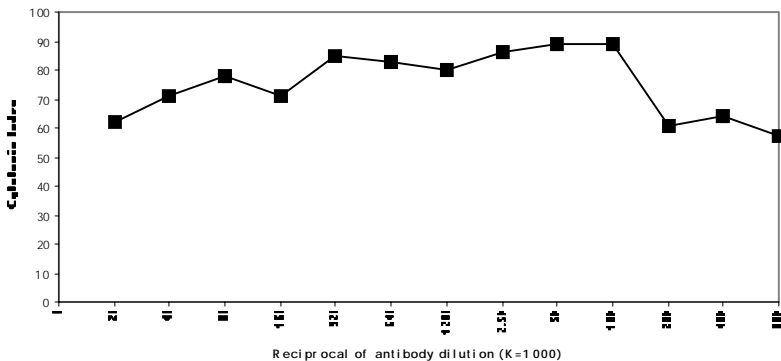
Complement: Cedarlane Low-Tox[®]-M Rabbit Complement

Complement Concentration: 1:12

Procedure: Two stage cytotoxicity as described on page 3, "Recommended Method for Determining Percent of H-2K^b or H-2D^b bearing cells in a Population".

C.I. = Cytotoxic Index =

$$100 \times \frac{\% \text{ cyt. (antibody + complement)} - \% \text{ cyt. (complement alone)}}{100 - \% \text{ cyt. (complement alone)}}$$

**STRAIN DISTRIBUTION:**

Procedure: As above

Antibody Concentration: Final concentration 1:100

Strains Tested: C3H/He, C57BL/6, CBA/J, AKR/J, BALB/c

Cells Killed by Treatment: C57BL/6

TISSUE DISTRIBUTION:

Procedure: as above
 Antibody Concentration: 1:320
 Strain: C57BL/6

<u>Cell Source</u>	<u>C.I.</u>
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Spleen	85
Thymus	55
Lymph Node	87
Bone Marrow	71

FUNCTIONAL TESTING:

Cell Source: Spleen
 Donors: C57BL/6, BALB/c
 Cell Concentration: 1×10^7 cells/ml
 Antibody Concentration: 1:100
 Complement: Cedarlane Low-Tox[®]-M Rabbit Complement
 Complement Concentration: 1:10

PROCEDURE:

Cells were treated as described in “Recommended Method for Depleting a Population of H-2K^b or H-2D^b Bearing Lymphocytes”, on page 2. Treated cells and controls were tested for a) the ability to generate plaque-forming cells (PFC) using a modified Jerne haemolytic plaque assay and b) the ability to generate cytotoxic T effector cells using a cytotoxic lymphocyte reaction (CTL) assay. Cells were treated both before and after sensitization in the CTL assay. In vitro immunizations were used in all experiments.

RESULTS:

Treatment of C57BL/6 splenocytes with anti-H-2K^bD^b plus complement essentially eliminates plaque-forming cells and cytotoxic T cells, as assessed by Jerne haemolytic plaque assay and CTL assay, respectively. Treatment of BALB/c splenocytes had no effect. These results are consistent with the depletion of H-2K^bD^b bearing cells.

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