Monoclonal Anti-mouse CD5L Antibody

ORDERING INFORMATION

Catalog Number: MAB2834

Clone: 375020

Lot Number: YMX04

Size: 100 μg

Formulation: 0.2 μm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: mouse CD5L

Immunogen: NS0-derived rmCD5L

Ig class: rat IgG_{2A}

Recommended Applications:
Western blot
Flow cytometry

Other Application:
Direct ELISA

Background
CD5L, also known as Spα and AIM, is a 50 kDa secreted glycoprotein that belongs to the SRCR group B family of proteins. Mouse CD5L contains three SRCR domains. It is produced by activated macrophages and functions in the initiation and maintenance of inflammatory reactions. CD5L also protects cortical $CD4^+CD8^+$ thymocytes from apoptosis. Mature mouse and human CD5L share 70% amino acid sequence identity.

Preparation
This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a rat immunized with purified, NS0-derived, recombinant mouse CD5L (rmCD5L; aa 22 - 352; Accession # Q9QWK4). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.

Formulation
Lyophilized from a 0.2 μm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution
Reconstitute with sterile PBS. If 0.2 mL of PBS is used, the antibody concentration will be 500 μg/mL.

Storage
Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity
This antibody detects rmCD5L in direct ELISAs and Western blots. In these applications, this antibody shows no cross-reactivity with rhCD5L or rmCD5.

Applications
Western blot - This antibody can be used at 1 - 2 μg/mL with the appropriate secondary reagents to detect mouse CD5L. Using a colorimetric detection system, the detection limit for rmCD5L is approximately 25 ng/lane under non-reducing conditions. Use of this antibody under reducing conditions is not recommended. Chemiluminescent detection will increase sensitivity by 5 to 50 fold.

Flow cytometry - This antibody was tested for flow cytometry using splenocytes. Dilute this antibody to 25 μg/mL and add 10 μL of the diluted solution to 1 - 2.5 x 10^5 cells in a total reaction volume not exceeding 200 μL. The binding of unlabeled monoclonal antibodies may be visualized by adding 10 μL of a 25 μg/mL stock solution of a secondary developing reagent such as goat anti-rat IgG conjugated to a fluorochrome.

Direct ELISA - This antibody can be used at 0.5 - 1.0 μg/mL with the appropriate secondary reagents to detect mouse CD5L. The detection limit for rmCD5L is approximately 1 ng/well.

Optimal dilutions should be determined by each laboratory for each application.

R&D Systems, Inc.
1-800-343-7475

4/1/08