



Biotinylated Anti-mouse CD5 Antibody

ORDERING INFORMATION

Catalog Number: BAM115

Clone: 53-7.3

Lot Number: GDH01

Size: 250 µg

Formulation: 0.2 µm filtered solution in PBS
with BSA

Storage: -20° C

Reconstitution: sterile PBS

Specificity: mouse CD5

Immunogen: mouse thymus and spleen

Ig class: rat IgG_{2A}

Recommended Applications:

ELISA
Flow cytometry
Immunoprecipitation
Immunohistochemistry

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 mouse thymus and spleen.¹ The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography and then biotinylated. CD5, also known as Leu-1, is a glycoprotein expressed on thymocytes, T cells, and the B1a subpopulation of B cells. CD5 is a member of the scavenger receptor cysteine-rich protein superfamily and the ligand of the C-type lectin, CD72. It modulates signaling through the antigen receptors on T and B cells.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody

Reconstitution

Reconstitute with sterile PBS. If 0.5 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 has been shown to react with a mouse monomorphic CD5.

Applications

ELISA - This antibody was used in Reference 5 to detect mouse CD5 by ELISA. This application was not tested by R&D Systems.

Flow Cytometry - This antibody was used in References 2-6 to detect mouse CD5 by flow cytometry using 1 µg/10⁶ cells. This application was not tested by R&D Systems.

Immunoprecipitation - This antibody was used in Reference 1 to immunoprecipitate mouse CD5. This application was not tested by R&D Systems.

Immunohistochemistry - This antibody was used in Reference 3 to detect mouse CD5 by Immunohistochemistry in acetone-fixed tissue sections. This application was not tested by R&D Systems.

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

References

1. Ledbetter, J.A. and L.A. Herzenberg, 1979, *Immunol. Rev.* **47**:63 - 90.
2. Ledbetter, J.A. *et al.*, 1980, *J. Exp. Med.* **152**:280 - 295.
3. van Ewijk, W. *et al.*, 1981, *J. Immunol.* **127**:2594 - 2604.
4. Hayakawa, K. *et al.*, 1983, *J. Exp. Med.* **157**: 202 - 218.
5. Luo, W. *et al.*, 1992, *J. Immunol.* **148**:1630 - 1634.
6. Lanier, L.L. *et al.*, 1986, *J. Immunol.* **137**:2735 - 2739.

