



Monoclonal Anti-mouse Cystatin B Antibody

ORDERING INFORMATION

Catalog Number: MAB14091

Clone: 227807

Lot Number: UDW02

Size: 500 µg

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

Storage: -20° C

Reconstitution: sterile PBS

Specificity: mouse Cystatin B

Immunogen: *E. coli*-derived rmCystatin B

Ig class: rat IgG_{2A}

Recommended Application:
Immunohistochemistry

Other Application:
Direct ELISA

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, *E. coli*-derived, recombinant mouse Cystatin B (rmCystatin B). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. Cystatin B, also called Stefin B or liver thiol proteinase inhibitor, is a member of family 1 of the Cystatin superfamily. Like Cystatin A, it is an intracellular inhibitor regulating the activities of cysteine proteases of the papain family such as Cathepsins B, H, and L.

Formulation

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

Reconstitution

Reconstitute with sterile PBS. If 1 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 was selected for its ability to detect mouse Cystatin B by immunohistochemistry. In direct ELISAs, this antibody shows 100% cross-reactivity with rhCystatin B and no cross-reactivity with rhCystatin A, C, D, E/M, F, S, SA, rhFetuin A, rhFetuin B, rhHPRG, or rhKininogen.

Applications

Immunohistochemistry – A biotin conjugate of this antibody was used at a concentration of 25 µg/mL with the appropriate secondary reagents to detect Cystatin B in frozen mouse embryo tissue sections. For chromogenic detection of labeling, the use of R&D Systems' Cell and Tissue Staining Kits (CTS Series) is recommended.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect mouse Cystatin B. The detection limit for rmCystatin B is approximately 20 ng/well.

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