



Monoclonal Anti-mouse Renin Propeptide Antibody

ORDERING INFORMATION

Catalog Number: MAB42771

Clone: 434703

Lot Number: CAJO01

Size: 100 µg

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

Storage: -20° C

Reconstitution: sterile PBS

Specificity: mouse Renin-1

Immunogen: NS0-derived rmRenin-1

Ig class: rat IgG_{2A}

Recommended Application:
Immunohistochemistry

Background

Mouse Renin is a secreted, 42 - 47 kDa glycosylated member of the peptidase A1 family. It is an aspartyl protease that cleaves angiotensinogen to form angiotensin I. In mouse, there are two genes that code for Renin. One is in the submandibular gland and the other is in the kidney. The two mature Renin molecules are 95% amino acid (aa) identical. Renal Renin (Renin-1) is synthesized as a 381 aa proform (aa 22 - 402). In the kidney, prorenin is proteolytically cleaved after Thr71 to generate a mature enzyme. Mouse pro-renin shares 70% and 85% aa sequence identity with human and rat pro-renin, respectively.

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 Renin-1 (rmRenin-1; Accession # P06281; aa 22 - 402). 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 recognizes the proform (aa 22 - 402) of mouse Renin-1 in direct ELISAs. In these applications, this antibody shows no cross-reactivity with rhRenin, rmCathepsin D, or rmCathepsin E.

Application

Immunohistochemistry - This antibody was used at a concentration of 25 µg/mL with appropriate secondary reagents to detect Renin-1 in frozen normal mouse kidney tissue sections. For chromogenic detection of labeling, the use of R&D Systems Cell and Tissue Staining Kits (CTS Series) is recommended.

For immunohistochemistry images, please refer to our website at <http://www.RnDSystems.com/go/ihc>.

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

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