



Monoclonal Anti-mouse Trypsin 3/PRSS3 Antibody

ORDERING INFORMATION

Catalog Number: MAB3565

Clone: 419911

Lot Number: CAFC01

Size: 100 µg

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

Storage: -20° C

Reconstitution: sterile PBS

Specificity: mouse Trypsin 3

Immunogen: NS0-derived rmTrypsin 3

Ig class: rat IgG₁

Recommended Application:
Immunohistochemistry

Background

Trypsin 3 is one of 3 Trypsin isoforms produced by the pancreas. It consists of a signal peptide (residues 1 - 15), a pro region (residues 16 - 23), and a mature chain (residues 24 - 246). The amino acid sequence of mouse Trypsin 3 is 92%, 81%, 74% and 73% identical to that of rat, canine, human and chimpanzee/chicken.

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 Trypsin 3 encoded by the PRSS3 gene (rmTrypsin 3; Accession # NP_035775; aa 16 - 246; R&D Systems, Catalog # 3565-SE). 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 rmTrypsin 3 in direct ELISAs and Western blots.

Application

Immunohistochemistry - This antibody was used at a concentration of 25 µg/mL with appropriate secondary reagents to detect Trypsin-3 in frozen normal mouse pancreas 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>.

For Western blotting MAB35651 is recommended.

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