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- Expressversand

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Datasheet for 100-4188

Ribonuclease A Antibody

Overview

Description:	Anti-Ribonuclease A (Bovine Pancreas) (RABBIT) Antibody - 100-4188
Item No.:	100-4188
Size:	2 mL
Applications:	WB
Reactivity:	Bovine
Host Species:	Rabbit

Product Details

Background:	Anti-Ribonuclease A Antibody detects Ribonuclease A. Ribonuclease A (RNase A) is a pancreatic ribonuclease that cleaves single-stranded RNA. RNase A is a relatively small protein. It can be characterized as a two-layer protein that is folded in half to resemble a taco, with a deep cleft for binding the RNA substrate. Anti-Ribonuclease A Antibody is ideal for investigators involved in Cell Signaling, Neuroscience and Signal Transduction research.
Synonyms:	rabbit anti-Ribonuclease A Antibody, Ribonuclease pancreatic, RNase 1, RNase A, RNS1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	RNASE1
Reactivity:	Bovine
Immunogen Type:	Native Protein
Immunogen:	Anti-Ribonuclease A was produced by repeated immunizations with bovine pancreatic Ribonuclease A.

Purity/Specificity:	Anti-Ribonuclease A was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-rabbit serum, purified and partially purified Ribonuclease A [Bovine Pancreas]. Cross reactivity against Ribonuclease A from other tissues and species may occur but have not been specifically determined.
Relevant Links:	• UniProtKB - P61823 • NCBI - AAI49530.1 • GeneID - 282340

Application Details

Suggested Applications:	WB (Based on references)
Application Note:	Anti-Ribonuclease A Antibody is suitable for western blotting, IP and for ELISA. Researchers should determine optimal titers for applications that are not stated below.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:30,000 - 1:150,000
IP:	1:100
WB:	1:3,000 - 1:15,000

Formulation

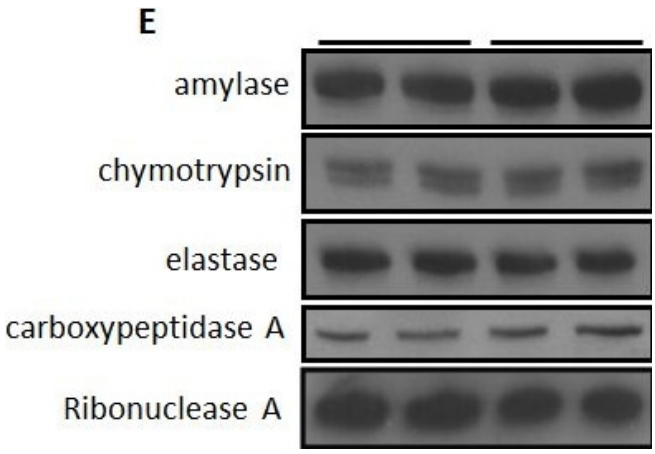
Physical State:	Lyophilized
Concentration:	90 mg/mL by Refractometry
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	2.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient

Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Rab27A deficiency caused increased expression of Rab27B, but did not affect its activity.(A and B) Examples of total lysates of isolated pancreatic acinar cells from wild-type C3H/HeSnJ or ashen mice were analyzed by western blot. Each lane represents samples from one mouse. (B) Densitometry analysis on the western blot results from all samples run as in (A). The results are mean ± SE from five mice of each genotype. *P < 0.05. (C) Active form of Rab27B and Rab3D at basal level in isolated acini was examined by GST-SHD and GST-Rim pulldown, respectively. Pulldown fractions were analyzed by western blot. This experiment was repeated three times with similar results. (D) The expression of major digestive enzymes (amylase, chymotrypsin, lipase, and elastase) and other Rab proteins (Rab6 and Rab11) was also not changed in western blots on lysates from isolated ashen mouse acinar cells. (E) The expression of major digestive enzymes (amylase, chymotrypsin, elastase, carboxypeptidase A and ribonuclease A) was also not changed in western blots of purified ashen mouse zymogen granules. Figure provided by CiteAb. Source: PLoS One, PMID: 25951179.

References

- Hou et al. Rab27A Is Present in Mouse Pancreatic Acinar Cells and Is Required for Digestive Enzyme Secretion. *PLOS One* (2015)
- Orenstein SJ et al. Interplay of LRRK2 with chaperone-mediated autophagy. *Nat Neurosci.* (2013)

Disclaimer

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