

Datasheet for 200-9155

ATPase Antibody

Overview

Description:	Anti-ATPase, Na+K+ (Canine Kidney) (CHICKEN) Antibody - 200-9155
Item No.:	200-9155
Size:	1 mg
Reactivity:	Dog
Host Species:	Chicken

Product Details

Background:	Sodium/potassium-transporting ATPase subunit alpha-1 is the catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of sodium and potassium ions across the plasma membrane. This action creates the electrochemical gradient of sodium and potassium ions, providing the energy for active transport of various nutrients.
Synonyms:	chicken anti-ATPase Antibody, Sodium/potassium-transporting ATPase
Host Species:	Chicken
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ATP1A1
Reactivity:	Dog
Immunogen Type:	Native Protein
Immunogen:	ATPase, Sodium, Potassium [Canine Kidney]
Purity/Specificity:	This product is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Chicken Serum as well as purified and partially purified ATPase, Sodium, Potassium [Canine Kidney]. Cross reactivity against ATPase, Sodium, Potassium from other tissues and species may occur but have not been specifically determined.

Relevant Links:

- [UniProtKB - P50997](#)
- [NCBI - NP_001003306.1](#)
- [GeneID - 403992](#)

Application Details

Application Note: Anti-ATPase Na⁺ K⁺ has been assayed against 1.0 ug of ATPase, Sodium, Potassium in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Chicken IgG [H&L] (Rabbit) code #603-4302 and (ABTS (2,2'-azino-bis-[3-ethylbenthi-zoline-6-sulfonic acid])) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:1,000 to 1:6,000 of the reconstitution concentration is suggested for this product.

Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:20,000
IP:	1:100
WB:	1:500 - 1:5,000

Formulation

Physical State:	Lyophilized
Concentration:	10.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	1.0 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.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.