

# Anti-Sodium Potassium ATPase antibody ab353

## 10 References

### Overview

<b>Product name</b>	Anti-Sodium Potassium ATPase antibody
<b>Description</b>	Chicken polyclonal to Sodium Potassium ATPase
<b>Host species</b>	Chicken
<b>Specificity</b>	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].
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, IHC-Fr, ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Dog
<b>Immunogen</b>	Full length protein corresponding to Sodium Potassium ATPase. ATPase, Sodium, Potassium [Canine Kidney]
<b>Positive control</b>	ICC: MDCK cells ELISA: 1ug recombinant protein
<b>General notes</b>	<p>Centrifuge product if not completely clear after standing at room temperature. This product is for research use only and is not intended for therapeutic or diagnostic applications. Please note that we have 2 concentrations of this antibody: 1mg/ml and 10mg/ml. Please check the vial label.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.01% Sodium azide Constituents: 0.424% Potassium phosphate, 0.878% Sodium chloride
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	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.

**Clonality**

Polyclonal

**Isotype**

IgY

## Applications

**The Abpromise guarantee**

Our **Abpromise guarantee** covers the use of ab353 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		Use at an assay dependent concentration. This product has been assayed against 1.0 ug of ATPase, Sodium, Potassium in a standard sandwich ELISA using Peroxidase conjugated Affinity Purified anti-Chicken IgG [H&L] (Rabbit) and ABTS (2,2'-azino-bis-[3-ethylbenzothiazole-6-sulfonic acid]) as a substrate for 30 minutes at room temperature.
IHC-Fr		Use at an assay dependent concentration. (see review)
ICC/IF		Use at an assay dependent concentration. (see review). Use amplification.
WB		Use at an assay dependent concentration.

## Target

**Function**

This 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.

**Sequence similarities**

Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IIC subfamily.

**Post-translational modifications**

Phosphorylation on Tyr-10 modulates pumping activity.

**Cellular localization**

Cell membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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