SICGEN ANTIBODIES

Product Data Sheet

Catalogue No.	Qty:
AB0306-100	300 µg

Anti-ATP1a1

Source: Goat

General description: Goat polyclonal antibody to ATP1a1. Na+/K+ -ATPase is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). This protein is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane.

Alternative names: ATPase Na+/K+ transporting subunit alpha 1and CMT2DD antibody.

Form: ?Polyclonal antibody supplied as a 100 µl (3 mg/ml) aliquot in PBS, 20% glycerol and 0.05% sodium azide. This antibody is epitope-affinity purified from goat antiserum.

Immunogen: Purified recombinant peptide derived from within residues 100 aa to N-terminus of human ATP1a1 produced in E. coli.

Specificity: Detects endogenous levels of ATP1a1 by Western blot in the whole cell lysates (HeLa, LS174T, SKOV3, etc.).

Reactivity: Reacts with Human, Rat, Mouse, Monkey and Canine proteins

Sample	WB	IHC (F)	IHC (P)	IF	ELISA
Human	+++	+++	+++	ND	ND
Rat	+++	+++	+++	ND	ND
Mouse	+++	+++	+++	ND	ND
Canine	+++	+++	+++	ND	ND
Monkey	+++	+++	+++	ND	ND

+++ excellent, ++ good, + poor, ND not determined

Usage:

WB:	1:500-1:2,000
IHC (F):	1:250-1:1,000

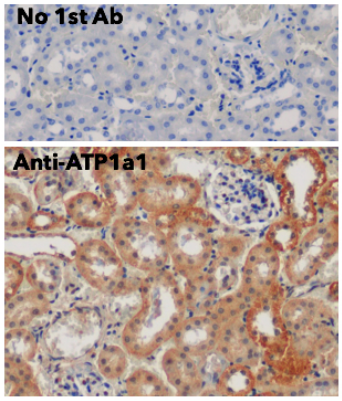
IHC (P): 1:250-1:1,000

Storage: For continuous use, store at 2-8 C for one-two days. For extended storage, store in -20 C freezer. Working dilution samples should be discarded if not used within 12 hours.

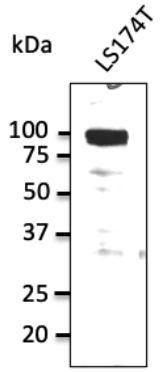
Special instructions: The antibody solution should be gently mixed before use..

References:

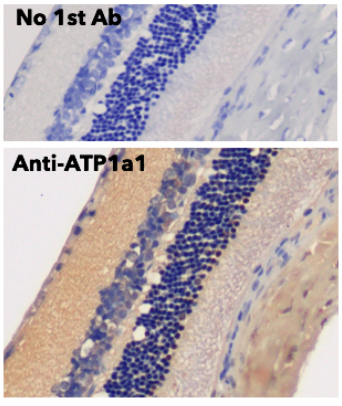
1. Ferreira JV, Rosa Soares A, Ramalho JS, et al. PLoS One 2019 Oct. PMID: 31613922
2. Ferreira JV, Soares AR, Ramalho J, et al. Sci Adv 2022 Mar PMID: 35333565



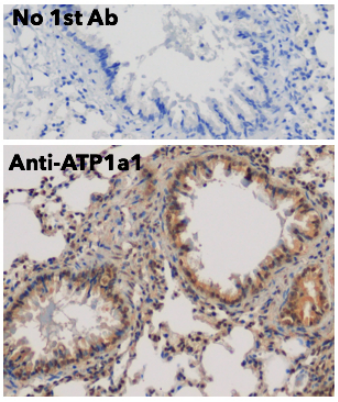
IHC of mouse kidney using anti-ATP1a1 antibody and FFPE tissue after heat-induced antigen retrieval. Anti-ATP1a1 Ab at 1:500/DAB detection;



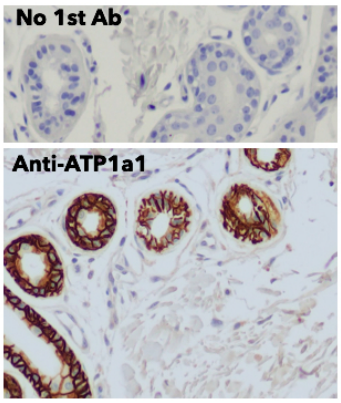
Endogenous ATP1a1 detected with at 1/1,000 dilution; lysate at 50 µg per lane and rabbit polyclonal to goat IgG (HRP) at 1/10,000 dilution;



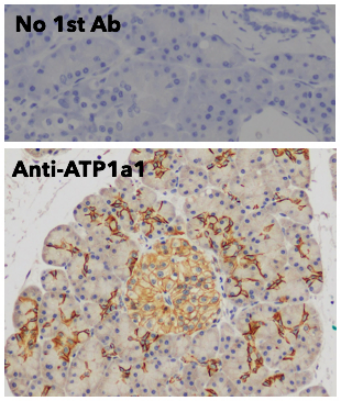
IHC of rat eye using anti-ATP1a1 antibody and FFPE tissue after heat-induced antigen retrieval. Anti-ATP1a1 Ab at 1:500/DAB detection;



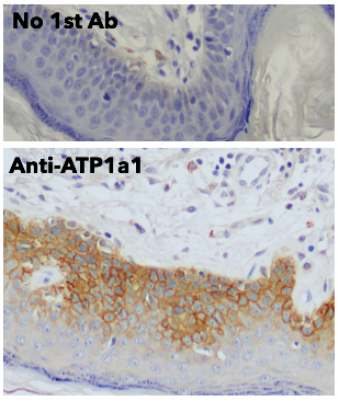
IHC of mouse lung using anti-ATP1a1 antibodyand FFPE tissue after heat-induced antigenretrieval. Anti-ATP1a1 Ab at 1:500/DABdetection;



IHC of human skin using anti-ATP1a1 antibody and FFPE tissue after heat-induced antigen retrieval. Anti-ATP1a1 Ab at 1:500/DAB detection;



IHC of human pancreas using anti-ATP1a1 antibody and FFPE tissue after heat-induced antigen retrieval. Anti-ATP1a1 Ab at 1:500/DAB detection;



IHC of human skin using anti-ATP1a1 antibody and FFPE tissue after heat-induced antigen retrieval. Anti-ATP1a1 Ab at 1:500/DAB detection;

For research use only, not for diagnostic use

In order to produce high specific antibodies SICGEN has invested a lot of time and effort into selecting immunogen sequences. SICGEN has decided to protect this information by not publishing it on the website. However, these sequences are available on request.