ATP1A1 Monoclonal Antibody (464.6)

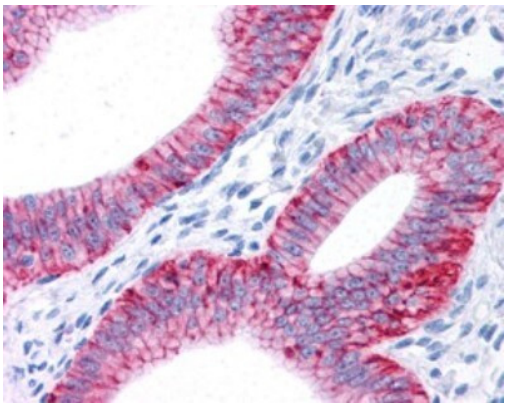
Product Details	
Size	50 µL
Species Reactivity	Bovine, Dog, Fruit fly, Guinea pig, Human, Mouse, Non-human primate, Sheep, Pig, Rabbit, Rat, Xenopus, Yeast
Published Species	Rat, Amphibian, Human, Rhesus monkey, Guinea pig
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	464.6
Conjugate	Unconjugated
Immunogen	Purified Na,K-ATPase from rabbit renal outer medulla.
Form	Liquid
Concentration	1 mg/mL
Storage buffer	PBS
Contains	0.02% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2060993

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000-1:10,000	4 Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:200	-
Immunohistochemistry (Frozen) (IHC (F))	1:200	-
Immunocytochemistry (ICC/IF)	1:50-1:1,000	2 Publications
Flow Cytometry (Flow)	1:50-1:200	-
Immunoprecipitation (IP)	Assay-Dependent	-

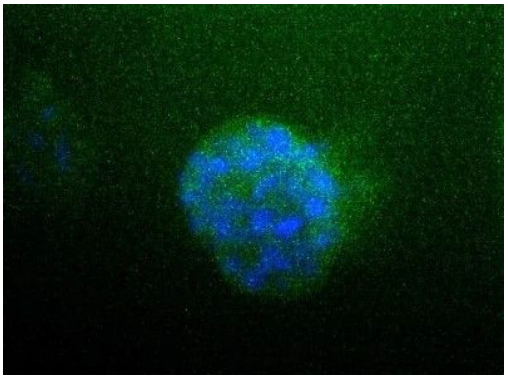
Product Specific Information

Do not boil samples prior to Western Blot.

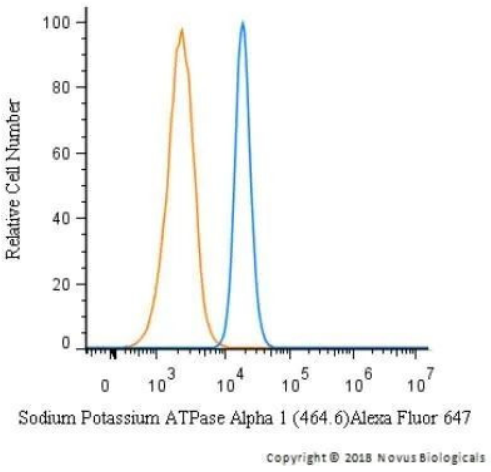
Product Images For ATP1A1 Monoclonal Antibody (464.6)



ATP1A1 Antibody (MA1-16731) in IHC (P)
Immunohistochemical analysis of ATP1A1 in human enodmetrial glands within the uterus. Samples were incubated in ATP1A1 monoclonal antibody (Product # MA1-16731). Note the absence of staining in the surrounding myometrial smooth muscle.



ATP1A1 Antibody (MA1-16731) in ICC/IF
Immunocytochemistry analysis of ATP1A1 in HepG2 cells. Samples were incubated in ATP1A1 monoclonal antibody (Product # MA1-16731). ATPA1 (Green). Nuclei (Blue) were counterstained using Hoechst 33258.



ATP1A1 Antibody (MA1-16731) in Flow
Flow cytometry of ATP1A1 in A549 cells. Samples were incubated in ATP1A1 monoclonal antibody (Product # MA1-16731) using a dilution of 2.5 µg/mL for 30 minutes at room temperature. Antibody (Blue) and a matched isotype control (Orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Both antibodies were conjugated to Alexa Fluor 647. Image using the Alexa Fluor 647 form of this antibody.

View more figures on thermofisher.com

8 References

Western Blot (4)

Medicine international

Na+/K+ATPase subunit 3 expression is associated with the efficacy of digitoxin treatment in pancreatic cancer cells.

"MA1-16731 was used in Western Blotting to investigate the effects of digitoxin in relation to the expression of the subunits ATP1A1 and ATP1A3 using three pancreatic cancer cell lines AsPC-1, Panc-1 and CFPAC-1."

Authors: Lindholm H,Ejeskär K,Szekeres F

Year
2023

Species
Human

Dilution
1:1000

The Journal of physiology

Changes in cellular Ca^{2+} and Na^{+} regulation during the progression towards heart failure in the guinea pig.

"MA1-16731 was used in Immunocytochemistry-immunoflourescence to follow changes in cardiac myocyte Ca2+ and Na+ regulation until signs of heart failure."

Authors: Ke HY,Yang HY,Francis AJ,Collins TP,Surendran H,Alvarez-Laviada A,Firth JM,MacLeod KT

Year
2020

Species
Guinea pig

Dilution
1:200

View more WB references on thermofisher.com

Immunohistochemistry (2)

Stem cell reports

Pluripotent stem cell-derived corneal endothelial cells as an alternative to donor corneal endothelium in keratoplasty.

"MA1-16731 was used in Immunohistochemistry to evaluate the efficacy of cryopreserved human embryonic stem cell (hESC)-derived corneal endothelial cells (CECs) to form a functional monolayer of corneal endothelium (CE) in rabbits and monkeys."

Authors: Ali M,Khan SY,Gottsch JD,Hutchinson EK,Khan A,Riazuddin SA

Year
2021

Species
Rhesus monkey

European journal of oral sciences

Gene-expression profile and localization of Na+/K(+)-ATPase in rat enamel organ cells.

"MA1-16731 was used in immunohistochemistry and western blot to study the rat enamel cell expression of Na(+)/K(+)-ATPase subunits"

Authors: Wen X,Lacruz RS,Smith CE,Paine ML

Year
2014

Species
Rat

More applications with references on thermofisher.com

ICC/IF (2)

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