ARG65270
anti-ATP1B1 / Na+ K+ ATPase beta 1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes ATP1B1 / Na+ K+ ATPase beta 1
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Cow, Dog, Pig
Tested Application	IHC-P, WB
Specificity	This antibody is expected to recognize both reported isoforms (NP_001668.1; NP_001001787.1).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	ATP1B1 / Na+ K+ ATPase beta 1
Species	Human
Immunogen	C-KTEISFRPNDPKSYE
Conjugation	Un-conjugated
Alternate Names	Sodium/potassium-transporting ATPase subunit beta-1; Sodium/potassium-dependent ATPase subunit beta-1; ATP1B; Na+ K+ ATPase beta 1; Na K ATPase beta 1; sodium potassium ATPase beta 1; ATPase Na+ K+ beta 1; ATPase Na K beta 1; ATPase sodium potassium beta 1

Application Instructions

Application table

Application	Dilution
IHC-P	5 µg/ml
WB	0.1 - 0.3 µg/ml

Application Note

WB: Recommend incubate at RT for 1h.
IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

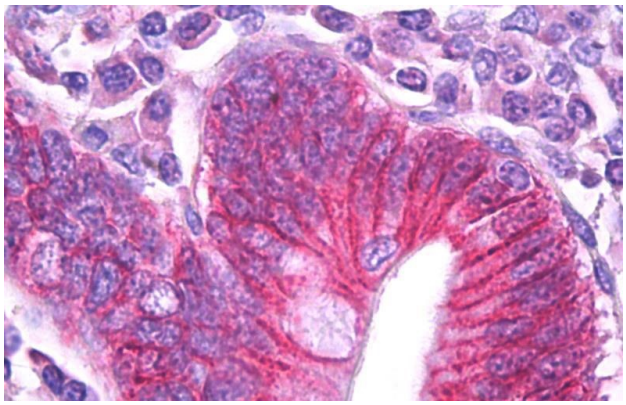
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

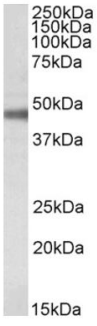
Background	The protein encoded by this gene belongs to the family of Na+/K+ and H+/K+ ATPases beta chain proteins, and to the subfamily of Na+/K+ -ATPases. Na+/K+ -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane. The glycoprotein subunit of Na+/K+ -ATPase is encoded by multiple genes. This gene encodes a beta 1 subunit. Alternatively spliced transcript variants encoding different isoforms have been described, but their biological validity is not known. [provided by RefSeq, Mar 2010]
Research Area	Cancer antibody; Metabolism antibody; Signaling Transduction antibody
Calculated Mw	35 kDa

Images



ARG65270 anti-ATP1B1 / Na+ K+ ATPase beta 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human small intestine tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG65270 anti-ATP1B1 / Na+ K+ ATPase beta 1 antibody at 5 µg/ml dilution followed by AP-staining.



Rat retina

ARG65270 anti-ATP1B1 / Na+ K+ ATPase beta 1 antibody WB image

Western blot: 35 µg of Rat retina lysate (in RIPA buffer) stained with ARG65270 anti-ATP1B1 / Na+ K+ ATPase beta 1 antibody at 0.1 µg/ml dilution and incubated at RT for 1 hour.