

Rabbit anti-Human ATP1B4 Monoclonal Antibody | anti-ATP1B4 antibody

Recombinant Anti-ATP1B4 Antibody, Rabbit Monoclonal

CATALOG # AAA255622	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunoprecipitation, ELISA, Western Blot
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PRODUCT SYNONYMS

ATP1B4; Monoclonal Antibody; Recombinant Anti-ATP1B4 Antibody; Rabbit Monoclonal; ATP1B4 Antibody; Rabbit MAb; ATPase; Na⁺/K⁺ transporting; beta 4 polypeptide; anti-ATP1B4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	108
Specificity	Human ATP1B4
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-ATP1B4 antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human ATP1B4 protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human ATP1B4 (mature form, NP_036201.1; Tyr 132-Thr 357).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

ATP1B4 was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate, 0.5 uL anti-ATP1B4 rabbit monoclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-ATP1B4 rabbit monoclonal antibody, at 1:1000 dilution. Secondary antibody: DyLight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 40 kDa. Observed band size: 40 kDa.



WB (Western Blot)

Anti-ATP1B4 rabbit monoclonal antibody at 1:500 dilution. Lane A: HepG2 Whole Cell Lysate. Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Rabbit IgG H&L (DyLight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 42 kDa. Observed band size: 38 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ATP1B4 antibody	ATP1B4 is a member of the X(+)/potassium ATPases subunit beta family. It is highly expressed in skeletal muscle and at a lower level in heart. ATP1B4 gene can be found in all vertebrate genomes sequenced to date. However, this gene has undergone a change in function in placental mammals compared to other species. Specifically, in fish, avian, and amphibian species, this gene encodes plasma membrane-bound beta-subunits of Na, K-ATPase. In placental mammals, the encoded protein interacts with the nuclear transcriptional coregulator SKIP and may be involved in the regulation of TGF-beta signaling. ATP1B4 may act as a transcriptional coregulator during muscle development through its interaction with SNW1. Na+, K+-ATPase is an important regulator of intracellular electrolyte levels in most mammalian cells. It is a Mg2+-dependent transport pump responsible for maintaining the low intracellular Na+:K+ ratio that is essential for cell homeostasis and physiological function. It catalyzes the active uptake of K+ and extrusion of Na+ at the expense of hydrolyzing ATP with a stoichiometry of 3 Na+ for 2 K+. ATP1B4 has lost its ancestral function as a Na, K-ATPase beta-subunit.
References	Pestov NB. et al., 2007, Proc Natl Acad Sci. 104 (27): 11215-20.Kung AW. et al., 2006, Clin Endocrinol. 64 (2): 158-61.Gerhard DS. et al., 2004, Genome Res. 14 (10B): 2121-7.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/atp1b4-antibody-clone-108-immunoprecipitation-western-blot-elisa/255622>