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Anti-ATP1B1 Rabbit Monoclonal Antibody

Catalog # ABO15745

Product Information

Application	WB, IHC
Primary Accession	P05026
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-ATP1B1 Rabbit Monoclonal Antibody . Tested in WB, IHC applications. This antibody reacts with Human, Mouse, Rat.

Additional Information

Gene ID	481
Other Names	Sodium/potassium-transporting ATPase subunit beta-1, Sodium/potassium-dependent ATPase subunit beta-1, ATP1B1, ATP1B
Calculated MW	35061
Application Details	WB 1:500-1:2000 IHC 1:50-1:200
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: 23A21
Immunogen	A synthesized peptide derived from human ATP1B1
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	ATP1B1 (HGNC:804)
Synonyms	ATP1B
Function	Non-catalytic subunit of the Na(+)/K(+)-ATPase pump that hydrolyzes ATP to exchange ions across the plasma membrane, exporting 3 Na(+) and importing

2 K(+) per cycle against electrochemical gradients. The beta subunit is important for the folding, stability, and targeting of the Na(+)/K(+)-ATPase pump to the plasma membranes (By similarity). In addition, acts as a homotypic cell adhesion molecule in epithelia cells. Interactions between ATP1B1 on neighboring cells are critical for proper lateral polarization of the Na(+)/K(+)-ATPase pump and for stabilizing cell-cell adhesion (By similarity). Plays a role in innate immunity by enhancing virus-triggered induction of interferons (IFNs) and interferon stimulated genes (ISGs). Mechanistically, enhances the ubiquitination of TRAF3 and TRAF6 as well as the phosphorylation of TAK1 and TBK1 (PubMed:34011520).

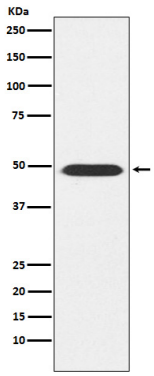
Cellular Location

Cell membrane; Single-pass type II membrane protein {ECO:0000250|UniProtKB:P05027} Apical cell membrane {ECO:0000250|UniProtKB:P07340}; Single-pass type II membrane protein {ECO:0000250|UniProtKB:P05027}. Cell membrane, sarcolemma {ECO:0000250|UniProtKB:P14094}. Note=Colocalizes with OBSCN at the intercalated disk and sarcolemma in cardiomyocytes. Localizes in long striations at the level of Z and M lines {ECO:0000250|UniProtKB:P14094}

Tissue Location

Found in most tissues.

Images



Western blot analysis of ATP1B1 expression in Mouse brain lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.