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Datasheet for ABIN6137304
anti-ATP1B1 antibody (AA 65-240)

3 Images

Overview

Quantity:	100 µL
Target:	ATP1B1
Binding Specificity:	AA 65-240
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP1B1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 65-240 of human ATP1B1 (NP_001668.1).
Sequence:	KPTYQDRVAP PGLTQIPQIQ KTEISFRPND PKSYEAYVLN IVRFLEKYKD SAQRDDMIFE DCGDVPSEPK ERGDFNHERG ERKVCRFKLE WLGNC SGLND ETYGYKEGKP CIIKLN RVL GFKPKPPKNE SLETYPVMKY NPNVLPVQCT GKRDEKDKV GNVEYFGLGN SPGFPL
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	ATP1B1
Alternative Name:	ATP1B1 (ATP1B1 Products)
Background:	<p>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.,ATP1B1,ATP1B,Cancer,Signal Transduction,Endocrine & Metabolism,Neuroscience,Calcium Signaling,ATP1B1</p>
Molecular Weight:	34 kDa/35 kDa
Gene ID:	481
UniProt:	P05026
Pathways:	Thyroid Hormone Synthesis , Ribonucleoside Biosynthetic Process , SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

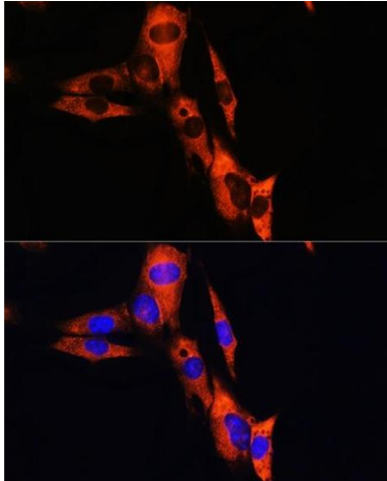
Handling

should be handled by trained staff only.

Storage: -20 °C

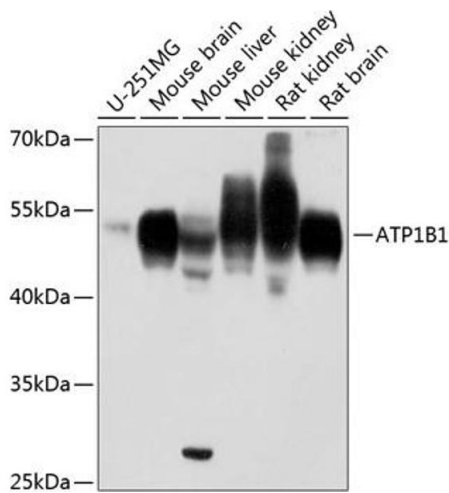
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Images



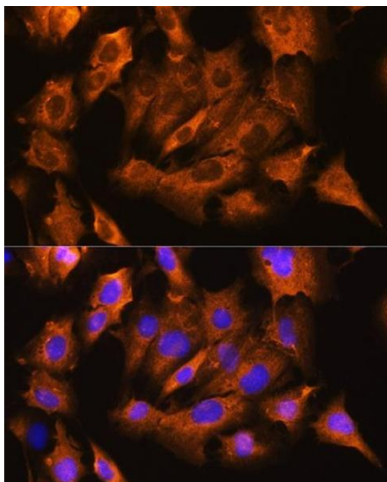
Immunofluorescence

Image 1. Immunofluorescence analysis of NIH/3T3 cells using B1 antibody (ABIN6127387, ABIN6137304, ABIN6137307 and ABIN6216023) at dilution of 1:100. Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using B1 antibody (ABIN6127387, ABIN6137304, ABIN6137307 and ABIN6216023) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



Immunofluorescence

Image 3. Immunofluorescence analysis of C6 cells using B1 antibody (ABIN6127387, ABIN6137304, ABIN6137307 and ABIN6216023) at dilution of 1:100. Blue: DAPI for nuclear staining.