Datasheet for ABIN1574143

anti-ATP1A1 antibody (AA 800-850)

2 Images

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Overview

Quantity:	40 µg
Target:	ATP1A1
Binding Specificity:	AA 800-850
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Immunogen:	KLH-coupled synthetic peptide within AA 800-850 of human ATP1A1
Isotype:	IgG2a
Specificity:	Rabbit Anti-ATP1A1 Polyclonal Antibody detects endogenous levels of human, mouse, and rat ATP1A1.
Purification:	Immunoaffinity chromatography

Target Details

Target:	ATP1A1
Alternative Name:	ATP1A1 (ATP1A1 Products)
Background:	ATP1A1, also known as Na+/K+ ATPase alpha-1 subunit, belongs both to the family of P-type cation transport ATPases and a subfamily of Na+/K+ ATPases. Na+/K+ ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients

Target Details

	of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, sodium-coupled transport of a variety of organic and inorganic molecules, and electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta).Rabbit Anti-ATP1A1 Polyclonal Antibody is developed in rabbit using a KLH-coupled synthetic peptide within residues 800-850 of human ATP1A1 (Swiss Prot: P05023).
Pathways:	Thyroid Hormone Synthesis, Regulation of Hormone Metabolic Process, Regulation of Hormone Biosynthetic Process, Proton Transport, Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product. Western blot: 0.5-1 µg/mLFlow cytometry: 1-3 µg for 1 x 106 cellsOther applications: user-optimized
Restrictions:	For Research Use only

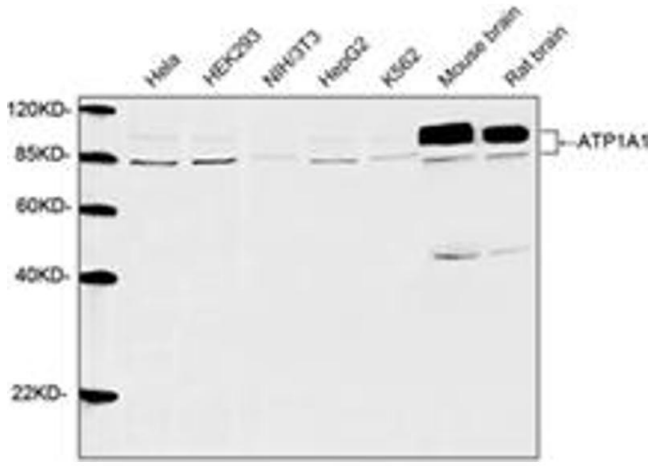
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4, containing 0.02 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	WARNING: Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled. Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.
Storage:	4 °C/-20 °C
Storage Comment:	The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody

Handling

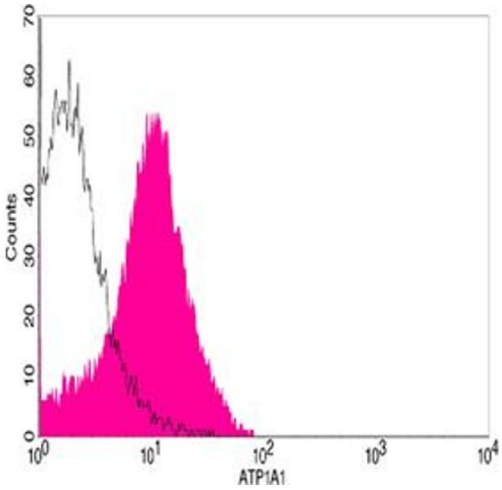
can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

Images



Western Blotting

Image 1. Western blot analysis of cell and tissue lysates using 1 µg/mL Rabbit Anti-ATP1A1 Polyclonal Antibody (ABIN398982) The signal was developed with IRDyeTM 800 Conjugated Goat Anti-Rabbit IgG.Predicted Size: 113 KD Observed Size: 113 KD and 85 KD



Flow Cytometry

Image 2. Flow cytometric analysis of HEK293 cells using ATP1A1 Antibody, pAb, Rabbit (ABIN398982, shaded histogram) or with an isotype control antibody (ABIN398653, open histogram), followed by R-PE conjugated anti-rabbit IgG.