Datasheet for ABIN1881087

anti-ATP1A3 antibody (AA 805-833)

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Overview

Quantity:	400 µL
Target:	ATP1A3
Binding Specificity:	AA 805-833
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP1A3 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This ATP1A3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 805-833 amino acids from the Central region of human ATP1A3.
Clone:	RB42176
Isotype:	Ig Fraction
Predicted Reactivity:	C, M, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	ATP1A3
Alternative Name:	ATP1A3 (ATP1A3 Products)

Target Details

Background:	The protein encoded by this gene belongs to the family of P-type cation transport ATPases, 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 catalytic subunit of Na+/K+ -ATPase is encoded by multiple genes. This gene encodes an alpha 3 subunit.
Molecular Weight:	111749
NCBI Accession:	NP_001243142, NP_001243143, NP_689509
UniProt:	P13637
Pathways:	Thyroid Hormone Synthesis, Proton Transport, Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	WB: 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

Publications

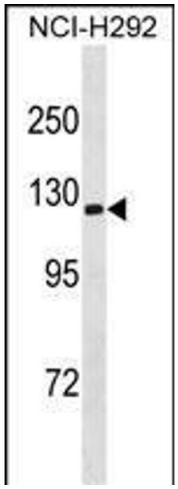
Product cited in:	Einholm, Toustrup-Jensen, Holm, Andersen, Vilsen: "The rapid-onset dystonia parkinsonism mutation D923N of the Na+, K+-ATPase alpha3 isoform disrupts Na+ interaction at the third Na+ site." in: **The Journal of biological chemistry**, Vol. 285, Issue 34, pp. 26245-54, (2010) (PubMed).

Publications

Floyd, Wray, Quenby, Martín-Vasallo, Mobasheri: "Expression and distribution of Na, K-ATPase isoforms in the human uterus." in: **Reproductive sciences (Thousand Oaks, Calif.)**, Vol. 17, Issue 4, pp. 366-76, (2010) (PubMed).

Goldstein, Lerer, Laiba, Mallet, Mujaheed, Laurent, Rosen, Ebstein, Lichtstein: "Association between sodium- and potassium-activated adenosine triphosphatase alpha isoforms and bipolar disorders." in: **Biological psychiatry**, Vol. 65, Issue 11, pp. 985-91, (2009) (PubMed).

Images



Western Blotting

Image 1. ATP1A3 Antibody (Center) (ABIN1881087 and ABIN2838929) western blot analysis in NCI- cell line lysates (35 µg/lane).This demonstrates the ATP1A3 antibody detected the ATP1A3 protein (arrow).