

Datasheet for ABIN7600851 anti-ATP1A3 antibody (AA 24-583)



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Quantity:	100 μg
Target:	ATP1A3
Binding Specificity:	AA 24-583
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP1A3 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB)

Product Details

Troduct Details		
Purpose:	Anti-ATP1A3 Antibody Picoband®	
Immunogen:	E.coli-derived human ATP1A3 recombinant protein (Position: D24-D583). Human ATP1A3 shares 99.8% amino acid (aa) sequence identity with both mouse and rat ATP1A3.	
Characteristics:	Anti-ATP1A3 Antibody Picoband® (ABIN7600851). Tested in WB, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.	
Purification:	Immunogen affinity purified.	

Target Details

Target:	ATP1A3 (ATP1A3 Products)	
Alternative Name:		
Background:	Sodium/potassium-transporting ATPase subunit alpha-3 is an enzyme that in humans is	
	encoded by the ATP1A3 gene. 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 o	
	Na+/K+ -ATPase is encoded by multiple genes. This gene encodes an alpha 3 subunit.	
	Alternatively spliced transcript variants encoding different isoforms have been found for this	
	gene.	
Molecular Weight:	90 kDa	
Gene ID:	478	
UniProt:	P13637	
Pathways:	Thyroid Hormone Synthesis, Proton Transport, Ribonucleoside Biosynthetic Process	
Application Details		
Application Notes:	Western blot, 0.25-0.5 μg/mL, Mouse, Rat	
	ELISA, 0.1-0.5 μg/mL, -	
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	J. K., DeSpenza, T., Hao, L. T., Reeves, B., Haider, S., Gunel, M., Lifton, R. P., Kahle, K. T.	
	Recessive inheritance of congenital hydrocephalus with other structural brain abnormalities	
	caused by compound heterozygous mutations in ATP1A3. Front. Cellular Neurosci. 13: 425,	
	2019. 2. Anselm, I. A., Sweadner, K. J., Gollamudi, S., Ozelius, L. J., Darras, B. T. Rapid-onset	
	dystonia-parkinsonism in a child with a novel ATP1A3 gene mutation. Neurology 73: 400-401,	
	2009. 3. Ashmore, L. J., Hrizo, S. L., Paul, S. M., Van Voorhies, W. A., Beitel, G. J., Palladino, M. J.	
	Novel mutations affecting the Na, K ATPase alpha model complex neurological diseases and	
	implicate the sodium pump in increased longevity. Hum. Genet. 126: 431-447, 2009.	

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 $\mu g/mL$.
Concentration:	500 μg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.