



Rabbit Anti-Human ATP1b3 Polyclonal Antibody (CABT-L2111)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to ATPase, Na ⁺ /K ⁺ Transporting Beta 3 Polypeptide (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against ATP1b3. It has been selected for its ability to recognize ATP1b3 in immunohistochemical staining and western blotting.
Target	ATP1b3
Immunogen	Recombinant fragment corresponding to human ATP1B3 (Met61~Phe273)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Rat
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

Introduction	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 3 subunit. This gene encodes a beta 3 subunit. A pseudogene exists for this gene, and it is located on chromosome 2. [provided by RefSeq, Jul 2008]
Keywords	CD298;ATP1-B3;ATPB-3;Sodium/potassium-transporting ATPase subunit beta-3

GENE INFORMATION

Gene Name	ATP1B3 ATPase, Na ⁺ /K ⁺ transporting, beta 3 polypeptide [Homo sapiens (human)]
Official Symbol	ATP1B3
Synonyms	ATP1B3; ATPase, Na ⁺ /K ⁺ transporting, beta 3 polypeptide; CD298; ATPB-3; sodium/potassium-transporting ATPase subunit beta-3; sodium pump subunit beta-3; Na, K-ATPase beta-3 polypeptide; sodium/potassium-dependent ATPase beta-3 subunit; sodium/potassium-dependent ATPase subunit beta-3; sodium/potassium-transporting ATPase beta-3 chain; sodium-potassium ATPase subunit beta 3 (non-catalytic);
Entrez Gene ID	483
Protein Refseq	NP_001670
UniProt ID	P54709
Chromosome Location	3q23
Pathway	Adrenergic signaling in cardiomyocytes; Aldosterone-regulated sodium reabsorption; Basigin interactions; Bile secretion; Calcium Regulation in the Cardiac Cell; Carbohydrate digestion and absorption; Cardiac muscle contraction; Cell surface interactions at the vascular wall;

Function

ATPase activator activity; ATPase binding; sodium:potassium-exchanging ATPase activity;
contributes_to sodium:potassium-exchanging ATPase activity;
