

RecomAb™

ATP1B1 recombinant monoclonal antibody, clone R02-8B6

Catalog # RAB06027 Size 100 uL

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human ATP1B1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human ATP1B1.
Theoretical MW (kDa)	Calculated MW: 35 kD
Reactivity	Human, Rat
Form	Liquid
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	Immunohistochemistry (1/50-1/100) Western Blot (1/500-1/1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50mM Tris-Glycine, 150mM NaCl, pH 7.4 (40% glycerol, 0.05% BSA and 0.01% Sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Gene Info — ATP1B1

Entrez GeneID [481](#)

Protein Accession# [P05026](#)

Gene Name ATP1B1

Gene Alias ATP1B, MGC1798

Gene Description ATPase, Na⁺/K⁺ transporting, beta 1 polypeptide

Omim ID [145500 182330](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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 in 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 identified. [provided by RefSeq]

Other Designations

Beta 1-subunit of Na(+),K(+)-ATPase|Na⁺/K⁺ -ATPase beta 1 subunit|Na, K-ATPase beta-1 polypeptide|Na,K-ATPase beta 1 subunit|OTTHUMP00000032537|OTTHUMP00000032538|adenosinetriphosphatase|sodium/potassium-dependent ATPase beta-1 subunit|sodium/potassium-tr

Pathway

- [Cardiac muscle contraction](#)

Disease

- [Adenocarcinoma](#)
- [Arrhythmias](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)

- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Graves Disease](#)
- [Hypertension](#)
- [Hypokalemic Periodic Paralysis](#)
- [Long QT syndrome](#)
- [Osteoporosis](#)