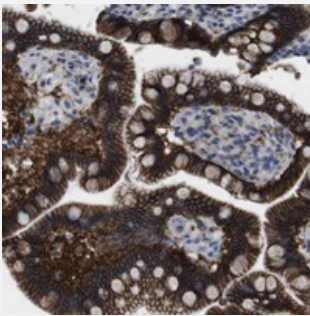


ATP1B1 polyclonal antibody

Catalog # PAB20637 Size 100 uL

Applications



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

Immunohistochemical staining of human colon with ATP1B1 polyclonal antibody (Cat # PAB20637) shows strong cytoplasmic and membranous positivity in glandular cells.

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant ATP1B1.
Immunogen	Recombinant protein corresponding to amino acids of human ATP1B1.
Sequence	SEFKPTYQDRVAPPGLTQIPQIQKTEISFRPNPKSYEAYVLNVRFLKYKDSAQRDDMIFEDCGD VPSEPKERGDFNHERGERKVCRFKLEWLGNC SGLNDETYGYKEGKPCIIIIKLNRVLGFKPKPPKN ESLETYPVMKYNP
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:200-1:500) Western Blot (1:250-1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% 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

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

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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](#)