ATP1B2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ATP1B2, Polyclonal Antibody
Full Product Name	Rabbit Anti ATP1B2 Polyclonal Affinity Purified (PBS with 0.02% sodium azide, 50% glycerol, pH7.3)(IHC)
Product Gene Name	anti-ATP1B2 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse, Rat
Form/Format	It is a polyclonal antibody in a liquid format, buffered in PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	33,367 Da
3D Structure	ModBase 3D Structure for P14415
Immunogen	Recombinant fusion protein of human ATP1B2 (NP_001669.3).
Applications Tested/Suitable for anti-ATP1B2 antibody	Immunohistochemistry (IHC)
Related Product Information for anti-ATP1B2 antibody	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 2 subunit. Two transcript variants encoding different isoforms have been found for this gene. This product can be used in analytical tools such as IHC.
Other Notes	Small volumes of anti-ATP1B2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ATP1B2 purchase	MBS8422658 is an antibody targeting ATP1B2. Also known as Rabbit Anti ATP1B2 Polyclonal Affinity Purified (PBS with 0.02% sodium azide, 50% glycerol, pH7.3)(IHC). Reactive in Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATP1B2. It may not necessarily be applicable to this product.

NCBI GI #	49574491
NCBI GeneID	482
NCBI Accession #	NP_001669.3
UniProt Primary Accession #	P14415
UniProt Secondary Accession #	O60444; A0AV17; A8K278; D3DTQ2

UniProt Related Accession #	P14415
GenBank Nucleotide #	NM_001678.4
NCBI Official Full Name	sodium/potassium-transporting ATPase subunit beta-2 isoform 1
NCBI Official Synonym Full Names	ATPase, Na+/K+ transporting, beta 2 polypeptide
NCBI Official Symbol	ATP1B2
NCBI Official Synonym Symbols	AMOG
Protein Family	Sodium/potassium-transporting ATPase
NCBI Protein Information	sodium/potassium-transporting ATPase subunit beta-2; Na, K-ATPase beta-2 polypeptide; adhesion molecule in glia; adhesion molecule on glia; sodium pump subunit beta-2; sodium-potassium ATPase subunit beta 2 (non-catalytic); sodium/potassium-dependent ATPa
NCBI Summary for ATP1B2	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 2 subunit. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2014]
Research Articles on ATP1B2	**1.** Retinoschisin, the protein involved in the pathogenesis of X-linked juvenile retinoschisis, membrane association is severely impaired in the absence of ATP1A3 and ATP1B2.
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