ATP8A1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ATP8A1, Polyclonal Antibody
Full Product Name	ATP8A1 Antibody, Biotin conjugated
Product Gene Name	anti-ATP8A1 antibody
Product Synonym Names	Phospholipid-transporting ATPase IA; ATPase class I type 8A member 1; Chromaffin granule ATPase II; P4-ATPase flippase complex alpha subunit ATP8A1; ATP8A1; ATPIA
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: ATP8A1 (MBS7045640) Biotin Conjugated Antibody: ATP8A1 (MBS7046429)
Molecular Weight	129,723 Da
OMIM	609542
3D Structure	ModBase 3D Structure for Q9Y2Q0
Species	Human
Immunogen	Recombinant human Phospholipid-transporting ATPase IA protein
Conjugate	Biotin
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-99109
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ATP8A1 antibody	ELISA (EIA)
Related Product Information for anti-ATP8A1 antibody	Catalytic component of a P4-ATPase flippase complex which catalyzes the hydrolysis of ATP coupled to the transport of aminophospholipids from the outer to the inner leaflet of various membranes and ensures the maintenance of asymmetric distribution of phospholipids. Phospholipid translocation seems also to be implicated in vesicle formation and in uptake of lipid signaling molecules. In vitro, its ATPase activity is selectively and stereospecifically stimulated by phosphatidylserine (PS). The flippase complex ATP8A1:TMEM30A seems to play a role in regulation of cell migration probably involving flippase-mediated translocation of phosphatidylethanolamine (PE) at the plasma membrane. Acts as aminophospholipid translocase at the plasma membrane in neuronal cells.
Other Notes	Small volumes of anti-ATP8A1 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 ATP8A1 purchase	MBS7046429 is an antibody targeting ATP8A1. Also known as ATP8A1 Antibody, Biotin conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATP8A1. It may not necessarily be applicable to this product.

NCBI GI #	157649069
NCBI GeneID	10396
NCBI Accession #	NP_001098999.1
UniProt Primary Accession #	Q9Y2Q0
UniProt Secondary Accession #	Q32M35; Q32M36; Q4W5J7; Q4W5P2
UniProt Related Accession #	Q9Y2Q0
GenBank Nucleotide #	NM_001105529.1
NCBI Official Full Name	phospholipid-transporting ATPase IA isoform b
NCBI Official Synonym Full Names	ATPase phospholipid transporting 8A1
NCBI Official Symbol	ATP8A1
NCBI Official Synonym Symbols	ATPIA; ATPP2; ATPASEII
UniProt Protein Name	Phospholipid-transporting ATPase IA
UniProt Synonym Protein Names	ATPase class I type 8A member 1; Chromaffin granule ATPase II; P4-ATPase flippase complex alpha subunit ATP8A1
Protein Family	Phospholipid-transporting ATPase
UniProt Gene Name	ATP8A1
UniProt Synonym Gene Names	ATPIA
UniProt Entry Name	AT8A1_HUMAN
NCBI Protein Information	phospholipid-transporting ATPase IA
NCBI Summary for ATP8A1	The P-type adenosinetriphosphatases (P-type ATPases) are a family of proteins which use the free energy of ATP hydrolysis to drive uphill transport of ions across membranes. Several subfamilies of P-type ATPases have been identified. One subfamily catalyzes transport of heavy metal ions. Another subfamily transports non-heavy metal ions (NMHI). The protein encoded by this gene is a member of the third subfamily of P-type ATPases and acts to transport amphipaths, such as phosphatidylserine. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for ATP8A1	ATP8A1: May play a role in the transport of aminophospholipids from the outer to the inner leaflet of various membranes and the maintenance of asymmetric distribution of phospholipids, mainly in secretory vesicles. Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IV subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Transporter, ion channel; Membrane protein, multi-pass; Membrane protein, integral; Transporter; EC 3.6.3.1; Hydrolase Chromosomal Location of Human Ortholog: 4p13 Cellular Component: endoplasmic reticulum; Golgi apparatus; intracellular membrane-bound organelle; membrane; plasma membrane; trans-Golgi network Molecular Function: phospholipid-translocating ATPase activity; protein binding Biological Process: Golgi vesicle budding

Research Articles on ATP8A1	**1.** Depletion of ATP8A1 impaired the asymmetric transbilayer distribution of phosphatidylserine in recycling endosomes, dissociated EHD1 from recycling endosomes, and generated aberrant endosomal tubules that appear resistant to fission.
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