

Rabbit ATP8A1 Polyclonal Antibody | anti-ATP8A1 antibody

ATP8A1 Antibody

CATALOG # AAA323178	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
-------------------------------	-----------------------	--	---

PRODUCT SYNONYMS

ATP8A1; Polyclonal Antibody; ATP8A1 Antibody; AT8A1_HUMAN; Atp8a1; ATPase class I type 8A member 1; ATPASE1; ATP1A; ATPP2; Chromaffin granule ATPase II; Probable phospholipid-transporting ATPase 1A; anti-ATP8A1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ATP8A1 antibody detects endogenous levels of ATP8A1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1149
Applicable Applications for anti-ATP8A1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ATP8A1.
Subcellular Location	Endoplasmic Reticulum; Golgi Apparatus; Plasma Membrane
Tissue Specificity	Found in most adult tissues except liver, testis and placenta. Most abundant in heart, brain and skeletal muscle. Also detected in fetal tissues. Isoform 1 is only detected in brain, skeletal muscle and heart and is the most abundant form in skeletal muscle.
Predicted Cross Reactivity	Pig, Bovine, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts of mouse brain tissue, using ATP8A1 antibody.



IHC (Immunohistochemistry)
AAA323178 at 1/100 staining Human lymph cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-ATP8A1 antibody	Function: 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. Subunit Structure: Component of a P4-ATPase flippase complex which consists of a catalytic alpha subunit and an accessory beta subunit. Interacts with TMEM30A to form a flippase complex; the interaction with TMEM30B is reported conflictingly. Similarity: Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IV subfamily.
--	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	157649069
NCBI GeneID	10396
NCBI Accession #	NP_001098999.1
NCBI GenBank Nucleotide #	NM_001105529.1
UniProt Accession #	Q9Y2Q0; Q32M35; Q32M36; Q4W5J7; Q4W5P2
Molecular Weight	Observed: 120 kDa Predicted: 132 kDa
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
NCBI Protein Information	phospholipid-transporting ATPase IA
UniProt Protein Name	Phospholipid-transporting ATPase IA
UniProt Gene Name	ATP8A1
UniProt Synonym Gene Names	ATPIA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.