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ATP11C Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5446c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q8NB49
Other Accession	NP_001010986.1
Reactivity	Human, Hamster, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22082
Calculated MW	129477
Antigen Region	589-616

Additional Information

Gene ID	286410
Other Names	Phospholipid-transporting ATPase IG, ATPase IQ, ATPase class VI type 11C, P4-ATPase flippase complex alpha subunit ATP11C, ATP11C, ATPIG, ATPIQ
Target/Specificity	This ATP11C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 589-616 amino acids from the Central region of human ATP11C.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ATP11C Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ATP11C {ECO:0000303|PubMed:26944472}
Synonyms	ATPIG, ATPIQ

Function	Catalytic component of a P4-ATPase flippase complex which catalyzes the hydrolysis of ATP coupled to the transport of aminophospholipids, phosphatidylserines (PS) and phosphatidylethanolamines (PE), from the outer to the inner leaflet of the plasma membrane (PubMed:24904167, PubMed:25315773, PubMed:26567335, PubMed:32493773). Major PS-flippase in immune cell subsets. In erythrocyte plasma membrane, it is required to maintain PS in the inner leaflet preventing its exposure on the surface. This asymmetric distribution is critical for the survival of erythrocytes in circulation since externalized PS is a phagocytic signal for erythrocyte clearance by splenic macrophages (PubMed:26944472). Required for B cell differentiation past the pro-B cell stage (By similarity). Seems to mediate PS flipping in pro-B cells (By similarity). May be involved in the transport of cholestatic bile acids (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein. Early endosome membrane; Multi-pass membrane protein. Recycling endosome membrane; Multi-pass membrane protein. Note=Efficient exit from the endoplasmic reticulum requires the presence of TMEM30A. Internalized via clathrin-dependent endocytosis in response to ca(2+) signaling induced by G-protein coupled serotonin and histamine receptors
Tissue Location	Widely expressed.

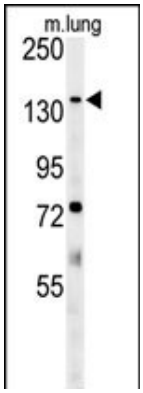
Background

The function of ATP11C remains unknown.

References

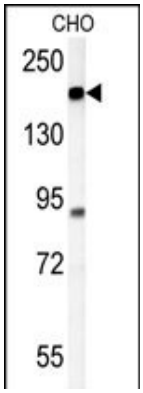
Matsuoka, S., et al. Science 316(5828):1160-1166(2007)
Andrew Nesbit, M., et al. Genomics 84(6):1060-1070(2004)
Halleck, M.S., et al. Physiol. Genomics 1(3):139-150(1999)
Yokoi, H., et al. Genomics 20(3):404-411(1994)

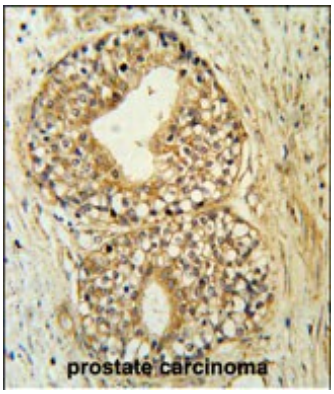
Images



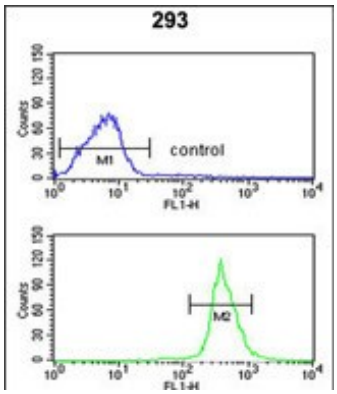
ATP11C Antibody (Center) (Cat.#AP5446c) western blot analysis in mouse lung tissue lysates (35ug/lane).This demonstrates the ATP11C antibody detected ATP11C protein (arrow).

ATP11C Antibody (Center) (Cat.#AP5446c) western blot analysis in CHO cell line lysates (35ug/lane).This demonstrates the ATP11C antibody detected the ATP11C protein (arrow).





ATP11C Antibody (Center (Cat. #AP5446c) immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ATP11C Antibody (Center for immunohistochemistry. Clinical relevance has not been evaluated.



ATP11C Antibody (Center) (Cat. #AP5446c) flow cytometric analysis of 293 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- ATP11C targets basolateral bile salt transporter proteins in mouse central hepatocytes.