

# Atp11c antibody - C-terminal region

Rabbit Polyclonal Antibody

Catalog # AI12458

## Product Information

<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">Q9QZW0</a>
<b>Other Accession</b>	<a href="#">NM_001037863</a> , <a href="#">NP_001032952</a>
<b>Reactivity</b>	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
<b>Predicted</b>	Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	129240

## Additional Information

<b>Gene ID</b>	320940
<b>Alias Symbol</b>	A330005H02Rik, AI315324, Ig, MGC117487
<b>Other Names</b>	Phospholipid-transporting ATPase 11C, 3.6.3.1, ATPase class VI type 11C, P4-ATPase flippase complex alpha subunit ATP11C, Atp11c
<b>Format</b>	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
<b>Reconstitution &amp; Storage</b>	Add 50 ul of distilled water. Final anti-Atp11c antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
<b>Precautions</b>	Atp11c antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

<b>Name</b>	Atp11c {ECO:0000303   PubMed:26799398, ECO:0000312   MGI:MGI:1859661}
<b>Function</b>	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: <a href="#">24898253</a> , PubMed: <a href="#">24904167</a> , PubMed: <a href="#">26799398</a> , PubMed: <a href="#">30018401</a> ). Major PS-flippase in immune cell subsets (PubMed: <a href="#">30018401</a> ). 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: <a href="#">24898253</a> ).

Required for B cell differentiation past the pro-B cell stage (PubMed:[21423173](#)). Seems to mediate PS flipping in pro-B cells (PubMed:[21423172](#), PubMed:[26799398](#)). May be involved in the transport of cholestatic bile acids (PubMed:[21518881](#)).

### Cellular Location

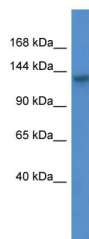
Cell membrane {ECO:0000250|UniProtKB:Q8NB49}; Multi-pass membrane protein. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q8NB49}; Multi-pass membrane protein. Early endosome membrane {ECO:0000250|UniProtKB:Q8NB49}; Multi-pass membrane protein. Recycling endosome membrane {ECO:0000250|UniProtKB:Q8NB49}; 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, HTR2A and HRH1 respectively {ECO:0000250|UniProtKB:Q8NB49}

### Tissue Location

Widely expressed. Expressed in retina, brain, liver and testes (at protein level) (PubMed:30018401). Expressed in lung, bone marrow, lymph nodes, prostate, ovary and uterus (PubMed:24904167) Expressed in fetus (PubMed:24904167).

## Images

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WB Suggested Anti-Atp11c Antibody Titration: 0.2-1  $\mu$ g/ml  
ELISA Titer: 1:62500  
Positive Control: Mouse Brain

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.