

ATP11A Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS13969**Specification**

ATP11A Antibody (N-Terminus) - Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	P98196
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	130kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A

ATP11A Antibody (N-Terminus) - Additional Information**Gene ID** 23250**Other Names**

Probable phospholipid-transporting ATPase IH, 3.6.3.1, ATPase IS, ATPase class VI type 11A, P4-ATPase flippase complex alpha subunit ATP11A, ATP11A, ATPIH, ATPIS, KIAA1021

Target/Specificity

Human ATP11A

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

ATP11A Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

ATP11A Antibody (N-Terminus) - Protein Information**Name** ATP11A**Synonyms** ATPIH, ATPIS, KIAA1021**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:25315773, PubMed:25947375),

PubMed:26567335, PubMed:29799007, PubMed:30018401, PubMed:36300302). Does not show flippase activity toward phosphatidylcholine (PC) (PubMed:34403372). Contributes to the maintenance of membrane lipid asymmetry with a specific role in morphogenesis of muscle cells. In myoblasts, mediates PS enrichment at the inner leaflet of plasma membrane, triggering PIEZO1-dependent Ca²⁺ influx and Rho GTPases signal transduction, subsequently leading to the assembly of cortical actomyosin fibers and myotube formation (PubMed:29799007). May be involved in the uptake of farnesyltransferase inhibitor drugs, such as lonafarnib.

Cellular Location

Cell membrane; Multi-pass membrane protein. Early endosome. Recycling endosome. Endoplasmic reticulum membrane; Multi-pass membrane protein. Note=Efficient exit from the endoplasmic reticulum requires the presence of TMEM30A.

Tissue Location

Widely expressed (PubMed:26567335). Expressed in myoblasts (PubMed:29799007).

ATP11A Antibody (N-Terminus) - Protocols

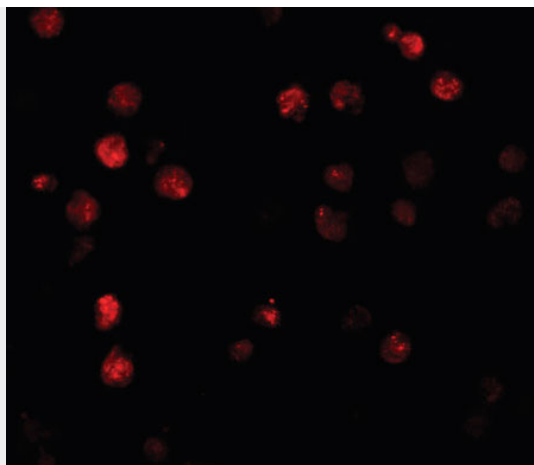
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

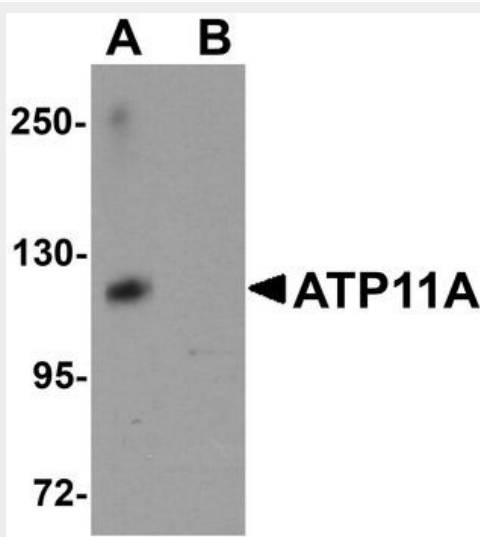
ATP11A Antibody (N-Terminus) - Images



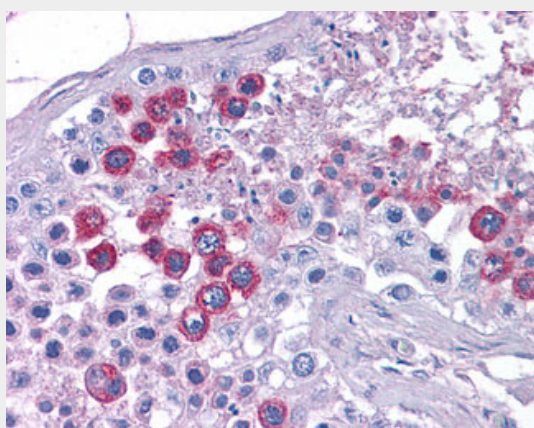
Immunocytochemistry of ATP11A in K562 cells with ATP11A antibody at 10 ug/ml.



Immunofluorescence of ATP11A in K562 cells with ATP11A antibody at 20 ug/ml.



Western blot analysis of ATP11A in K562 cell tissue lysate with ATP11A antibody at 1 ug/ml in...



Anti-ATP11A antibody IHC of human testis.

ATP11A Antibody (N-Terminus) - Background

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 (Probable). May be involved in the uptake of farnesyltransferase inhibitor drugs, such as lonafarnib.

ATP11A Antibody (N-Terminus) - References

Dunham A.,et al.Nature 428:522-528(2004).

Kikuno R.,et al.DNA Res. 6:197-205(1999).

Ohara O.,et al.Submitted (AUG-2005) to the EMBL/GenBank/DDBJ databases.

Zhang B.,et al.Blood 106:1355-1361(2005).

Takatsu H.,et al.J. Biol. Chem. 286:38159-38167(2011).