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ATP8B3 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20206A

Product Information

Application	WB, E
Primary Accession	O60423
Other Accession	NP_620168.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB42178
Calculated MW	146752
Antigen Region	56-84

Additional Information

Gene ID	148229
Other Names	Phospholipid-transporting ATPase IK, ATPase class I type 8B member 3, ATP8B3, ATP1K, FOS37502_2
Target/Specificity	This ATP8B3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 56-84 amino acids from the N-terminal region of human ATP8B3.
Dilution	WB~~1:1000 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	ATP8B3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ATP8B3 (HGNC:13535)
Synonyms	ATP1K, FOS37502_2
Function	P4-ATPase flippase 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 also seems to be implicated in vesicle formation and in uptake of lipid signaling molecules. May be responsible for the maintenance of asymmetric distribution of phosphatidylserine (PS) in spermatozoa membranes. Involved in acrosome reactions and binding of spermatozoa to zona pellucida.
Cellular Location	Cytoplasmic vesicle, secretory vesicle, acrosome membrane {ECO:0000250|UniProtKB:Q6UQ17}; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein
Tissue Location	Isoform 3 was only detected in testis.

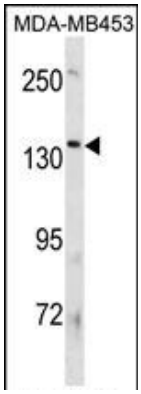
Background

The protein encoded by this gene belongs to the family of P-type cation transport ATPases, and to the subfamily of aminophospholipid-transporting ATPases. The aminophospholipid translocases transport phosphatidylserine and phosphatidylethanolamine from one side of a bilayer to another. This gene encodes the member 3 of the phospholipid-transporting ATPase 8B. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq].

References

Scott, L.J., et al. Proc. Natl. Acad. Sci. U.S.A. 106(18):7501-7506(2009)
Harris, M.J., et al. Biochim. Biophys. Acta 1633(2):127-131(2003)
Halleck, M.S., et al. Physiol. Genomics 1(3):139-150(1999)
Fries, A.S., et al. Lab. Anim. 12(1):1-4(1978)

Images



ATP8B3 Antibody (N-term) (Cat. #AP20206a) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the ATP8B3 antibody detected the ATP8B3 protein (arrow).