

ATP8A2 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP10934a**Specification**

ATP8A2 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [Q9NTI2](#)**ATP8A2 Antibody (N-term) Blocking peptide - Additional Information**

Gene ID 51761

Other Names

Phospholipid-transporting ATPase IB, ATPase class I type 8A member 2, ML-1, P4-ATPase flippase complex alpha subunit ATP8A2, ATP8A2, ATPIB

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ATP8A2 Antibody (N-term) Blocking peptide - Protein InformationName ATP8A2 ([HGNC:13533](#))

Synonyms ATPIB

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 (By similarity). Able to translocate phosphatidylserine, but not phosphatidylcholine (PubMed:34403372). Phospholipid translocation seems also to be implicated in vesicle formation and in uptake of lipid signaling molecules (By similarity). Reconstituted to liposomes, the ATP8A2:TMEM30A flippase complex predominantly transports phosphatidylserine (PS) and to a lesser extent phosphatidylethanolamine (PE) (By similarity). Phospholipid translocation is not associated with a countertransport of an inorganic ion or other charged substrate from the cytoplasmic side toward the exoplasm in connection with the phosphorylation from ATP (By similarity). ATP8A2:TMEM30A may be involved in regulation of neurite outgrowth (By similarity). Proposed to function in the generation and maintenance of phospholipid asymmetry in photoreceptor disk membranes and neuronal axon membranes (By similarity). May be involved in vesicle trafficking in neuronal cells (By similarity). Required for normal visual and auditory function; involved in photoreceptor and

inner ear spiral ganglion cell survival (By similarity).

Cellular Location

Membrane; Multi-pass membrane protein. Golgi apparatus membrane. Endosome membrane {ECO:0000250|UniProtKB:P98200}. Cell membrane. Photoreceptor outer segment membrane {ECO:0000250|UniProtKB:P98200}. Photoreceptor inner segment membrane {ECO:0000250|UniProtKB:C7EXK4}. Note=Localizes to the Golgi and endosomes in photoreceptor cells (By similarity). Localizes to disk membranes of rod photoreceptor outer segments (ROS) (By similarity) {ECO:0000250|UniProtKB:C7EXK4, ECO:0000250|UniProtKB:P98200}

Tissue Location

Strongly expressed in the brain, cerebellum, retina and testis.

ATP8A2 Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

ATP8A2 Antibody (N-term) Blocking peptide - Images**ATP8A2 Antibody (N-term) Blocking peptide - References**

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Coleman, J.A., et al. J. Biol. Chem. 284(47):32670-32679(2009)Dunham, A., et al. Nature 428(6982):522-528(2004)Halleck, M.S., et al. Physiol. Genomics 1(3):139-150(1999)Sun, X.L., et al. Gene Expr. 8(2):129-139(1999)