

ATLA2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP9367c**Specification****ATLA2 Antibody (Center) Blocking Peptide - Product Information**

Primary Accession [Q8NHH9](#)

ATLA2 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 64225

Other Names

Atlastin-2, 365-, ADP-ribosylation factor-like protein 6-interacting protein 2, ARL-6-interacting protein 2, Aip-2, ATL2, ARL6IP2

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.

ATLA2 Antibody (Center) Blocking Peptide - Protein Information

Name ATL2 {ECO:0000303|PubMed:14506257, ECO:0000312|HGNC:HGNC:24047}

Function

Atlastin-2 (ATL2) is a membrane-anchored GTPase that mediates the GTP-dependent fusion of endoplasmic reticulum (ER) membranes, maintaining the continuous ER network. It facilitates the formation of three-way junctions where ER tubules intersect (PubMed:18270207, PubMed:19665976, PubMed:22065636, PubMed:27619977, PubMed:34817557). Two atlastin-2 on neighboring ER tubules bind GTP and form loose homodimers through the GB1/RHD3-type G domains and 3HB regions. Upon GTP hydrolysis, the 3HB regions tighten, pulling the membranes together to drive their fusion. After fusion, the homodimer disassembles upon release of inorganic phosphate (Pi). Subsequently, GDP dissociates, resetting the monomers to a conformation ready for a new fusion cycle (By similarity).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Note=Localizes at endoplasmic reticulum (ER) three-way tubular junctions (PubMed:27619977)

Tissue Location

Expressed in peripheral tissues (at protein level).

ATLA2 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ATLA2 Antibody (Center) Blocking Peptide - Images**ATLA2 Antibody (Center) Blocking Peptide - Background**

ATLA2 is GTPase tethering membranes through formation of trans-homooligomer and mediating homotypic fusion of endoplasmic reticulum membranes. This protein play a role in endoplasmic reticulum tubular network biogenesis.

ATLA2 Antibody (Center) Blocking Peptide - References

Hu,J. Cell 138 (3), 549-561 (2009) Rismanchi,N. Hum. Mol. Genet. 17 (11), 1591-1604 (2008) Abel,A. Neurogenetics 5 (4), 239-243 (2004)