

ATL1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP16799b**Specification**

ATL1 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q8WXF7](#)**ATL1 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 51062**Other Names**

Atlastin-1, 365-, Brain-specific GTP-binding protein, GTP-binding protein 3, GBP-3, hGBP3, Guanine nucleotide-binding protein 3, Spastic paraplegia 3 protein A, ATL1, GBP3, SPG3A

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.

ATL1 Antibody (C-term) Blocking Peptide - Protein Information**Name** ATL1**Synonyms** GBP3, SPG3A**Function**

GTPase tethering membranes through formation of trans- homooligomers and mediating homotypic fusion of endoplasmic reticulum membranes. Functions in endoplasmic reticulum tubular network biogenesis (PubMed:27619977). May also regulate Golgi biogenesis. May regulate axonal development.

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein. Cell projection, axon {ECO:0000250|UniProtKB:Q6PST4}. Note=Localizes to endoplasmic reticulum tubular network (PubMed:27619977)

Tissue Location

Expressed predominantly in the adult and fetal central nervous system. Measurable expression in all tissues examined, although expression in adult brain is at least 50-fold higher than in other tissues. Detected predominantly in pyramidal neurons in the cerebral cortex and the hippocampus

of the brain. Expressed in upper and lower motor neurons (at protein level)

ATL1 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ATL1 Antibody (C-term) Blocking Peptide - Images

ATL1 Antibody (C-term) Blocking Peptide - Background

The protein encoded by this gene is a GTPase and a Golgibody transmembrane protein. The encoded protein can form a homotetramer and has been shown to interact with spastin and with mitogen-activated protein kinase kinase kinase 4. This protein may be involved in axonal maintenance as evidenced by the fact that defects in this gene are a cause of spastic paraplegia type 3. Three transcript variants encoding two different isoforms have been found for this gene.

ATL1 Antibody (C-term) Blocking Peptide - References

Cirulli, E.T., et al. Eur. J. Hum. Genet. 18(7):815-820(2010) Park, S.H., et al. J. Clin. Invest. 120(4):1097-1110(2010) Yoshida, T., et al. Int. J. Mol. Med. 25(4):649-656(2010) de Leva, M.F., et al. J. Neurol. 257(3):328-331(2010) Oguri, M., et al. Am. J. Hypertens. 23(1):70-77(2010)