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GATL3 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP4715a

Specification

GATL3 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q8WTX7

GATL3 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 652968

Other Names
GATS-like protein 3, GATSL3

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.

GATL3 Antibody (N-term) Blocking Peptide - Protein Information

Name CASTOR1 {ECO:0000303|PubMed:26972053, ECO:0000312|HGNC:HGNC:34423}

Function
Functions as an intracellular arginine sensor within the amino acid-sensing branch of the TORC1 signaling pathway (PubMed:26972053, PubMed:27487210, PubMed:33594058). As a homodimer or a heterodimer with CASTOR2, binds and inhibits the GATOR subcomplex GATOR2 and thereby mTORC1 (PubMed:26972053, PubMed:27487210, PubMed:33594058). Binding of arginine to CASTOR1 allosterically disrupts the interaction of CASTOR1-containing dimers with GATOR2 which can in turn activate mTORC1 and the TORC1 signaling pathway (PubMed:26972053, PubMed:27487210, PubMed:33594058).

Cellular Location
Cytoplasm, cytosol.

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Tissue Location
Widely expressed..

GATL3 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

GATL3 Antibody (N-term) Blocking Peptide - Images

GATL3 Antibody (N-term) Blocking Peptide - References

Kapranov, P., et al. Genome Res. 15(7):987-997(2005)Cheng, J., et al. Science 308(5725):1149-1154(2005)Collins, J.E., et al. Genome Biol. 5 (10), R84 (2004)