

MMGT1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP4731b**Specification**

MMGT1 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q8N4V1](#)**MMGT1 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 93380

Other Names

Membrane magnesium transporter 1, ER membrane protein complex subunit 5, Transmembrane protein 32, MMGT1, EMC5, TMEM32

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.

MMGT1 Antibody (C-term) Blocking Peptide - Protein InformationName MMGT1 ([HGNC:28100](#))**Function**

Part of the endoplasmic reticulum membrane protein complex (EMC) that enables the energy-independent insertion into endoplasmic reticulum membranes of newly synthesized membrane proteins (PubMed: [30415835](http://www.uniprot.org/citations/30415835), PubMed: [29809151](http://www.uniprot.org/citations/29809151), PubMed: [29242231](http://www.uniprot.org/citations/29242231), PubMed: [32459176](http://www.uniprot.org/citations/32459176), PubMed: [32439656](http://www.uniprot.org/citations/32439656)). Preferentially accommodates proteins with transmembrane domains that are weakly hydrophobic or contain destabilizing features such as charged and aromatic residues (PubMed: [30415835](http://www.uniprot.org/citations/30415835), PubMed: [29809151](http://www.uniprot.org/citations/29809151), PubMed: [29242231](http://www.uniprot.org/citations/29242231)). Involved in the cotranslational insertion of multi-pass membrane proteins in which stop-transfer membrane-anchor sequences become ER membrane spanning helices (PubMed: [30415835](http://www.uniprot.org/citations/30415835), PubMed: [29809151](http://www.uniprot.org/citations/29809151)). It is also required for the post-translational insertion of

tail-anchored/TA proteins in endoplasmic reticulum membranes (PubMed:29809151, PubMed:29242231). By mediating the proper cotranslational insertion of N-terminal transmembrane domains in an N-exo topology, with translocated N- terminus in the lumen of the ER, controls the topology of multi-pass membrane proteins like the G protein-coupled receptors (PubMed:30415835). By regulating the insertion of various proteins in membranes, it is indirectly involved in many cellular processes (By similarity). May be involved in Mg(2+) transport (By similarity).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Golgi apparatus membrane {ECO:0000250|UniProtKB:Q8K273}; Multi-pass membrane protein Early endosome membrane {ECO:0000250|UniProtKB:Q8K273}; Multi-pass membrane protein

MMGT1 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

MMGT1 Antibody (C-term) Blocking Peptide - Images

MMGT1 Antibody (C-term) Blocking Peptide - Background

MMGT1 mediates Mg(2+) transport.

MMGT1 Antibody (C-term) Blocking Peptide - References

Goytain, A., et al. Am. J. Physiol., Cell Physiol. 294 (2), C495-C502 (2008) Simpson, J.C., et al. EMBO Rep. 1(3):287-292(2000)