

TMEM111 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP5782a**Specification**

TMEM111 Antibody (N-term) Blocking peptide - Product Information

Primary Accession [O9P0I2](#)
Other Accession [NP_060917.1](#)

TMEM111 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 55831

Other Names

ER membrane protein complex subunit 3, Transmembrane protein 111, EMC3, TMEM111

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.

TMEM111 Antibody (N-term) Blocking peptide - Protein Information

Name EMC3

Synonyms TMEM111

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)).

target="_blank">30415835, PubMed: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 (Probable).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein

TMEM111 Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

TMEM111 Antibody (N-term) Blocking peptide - Images**TMEM111 Antibody (N-term) Blocking peptide - References**

Hu, R.M., et al. Proc. Natl. Acad. Sci. U.S.A. 97(17):9543-9548(2000)