

**TTC35 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP18405c**

**Specification**

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**TTC35 Antibody (Center) Blocking Peptide - Product Information**

Primary Accession [Q15006](#)

**TTC35 Antibody (Center) Blocking Peptide - Additional Information**

**Gene ID** 9694

**Other Names**

ER membrane protein complex subunit 2, Tetratricopeptide repeat protein 35, TPR repeat protein 35, EMC2, KIAA0103, TTC35

**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.

**TTC35 Antibody (Center) Blocking Peptide - Protein Information**

**Name** EMC2 ([HGNC:28963](#))

**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:<a href="http://www.uniprot.org/citations/30415835" target="\_blank">30415835</a>, PubMed:<a href="http://www.uniprot.org/citations/29809151" target="\_blank">29809151</a>, PubMed:<a href="http://www.uniprot.org/citations/29242231" target="\_blank">29242231</a>, PubMed:<a href="http://www.uniprot.org/citations/32459176" target="\_blank">32459176</a>, PubMed:<a href="http://www.uniprot.org/citations/32439656" target="\_blank">32439656</a>, PubMed:<a href="http://www.uniprot.org/citations/33964204" target="\_blank">33964204</a>). Preferentially accommodates proteins with transmembrane domains that are weakly hydrophobic or contain destabilizing features such as charged and aromatic residues (PubMed:<a href="http://www.uniprot.org/citations/30415835" target="\_blank">30415835</a>, PubMed:<a href="http://www.uniprot.org/citations/29809151" target="\_blank">29809151</a>, PubMed:<a href="http://www.uniprot.org/citations/29242231" target="\_blank">29242231</a>). Involved in the cotranslational insertion of multi-pass membrane proteins in which stop-transfer membrane-anchor sequences become ER membrane spanning helices (PubMed:<a href="http://www.uniprot.org/citations/30415835" target="\_blank">30415835</a>, PubMed:<a href="http://www.uniprot.org/citations/29809151" target="\_blank">30415835</a>, PubMed:<a href="http://www.uniprot.org/citations/29809151" target="\_blank">29809151</a>).

target="\_blank">29809151</a>). It is also required for the post-translational insertion of tail-anchored/TA proteins in endoplasmic reticulum membranes (PubMed:<a href="http://www.uniprot.org/citations/29809151" target="\_blank">29809151</a>, PubMed:<a href="http://www.uniprot.org/citations/29242231" target="\_blank">29242231</a>). 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:<a href="http://www.uniprot.org/citations/30415835" target="\_blank">30415835</a>). By regulating the insertion of various proteins in membranes, it is indirectly involved in many cellular processes (Probable).

#### **Cellular Location**

Endoplasmic reticulum membrane; Peripheral membrane protein; Cytoplasmic side Note=May also localize to the nuclear envelope {ECO:0000250|UniProtKB:Q9CRD2}

#### **TTC35 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **TTC35 Antibody (Center) Blocking Peptide - Images**

#### **TTC35 Antibody (Center) Blocking Peptide - Background**

TTC35 is also known as TPR repeat protein 35. TPR domains consist of a variable number of degenerate tandem 34 amino acid repeats. TPR domains have been suggested to have a variety of functions in proteins in various subcellular compartments and appear to function as targeting domains, mediating specific protein-protein interactions.

#### **TTC35 Antibody (Center) Blocking Peptide - References**

Lamesch, P., et al. Genomics 89(3):307-315(2007)Dreger, M., et al. Proc. Natl. Acad. Sci. U.S.A. 98(21):11943-11948(2001)Hoja, M.R., et al. Exp. Cell Res. 259(1):239-246(2000)