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TMM85 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14717a

Specification

TMM85 Antibody (N-term) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	Q5J8M3
Other Accession	Q9CZX9, Q3T0K8, NP_057538.1
Reactivity	**Human**
Predicted	**Bovine, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**20087**
Antigen Region	**34-62**

TMM85 Antibody (N-term) - Additional Information

Gene ID 51234

Other Names
ER membrane protein complex subunit 4, Cell proliferation-inducing gene 17 protein, Transmembrane protein 85, EMC4, TMEM85

Target/Specificity
This TMM85 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 34-62 amino acids from the N-terminal region of human TMM85.

Dilution
IHC-P~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
TMM85 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TMM85 Antibody (N-term) - Protein Information

Name EMC4

Synonyms TMEM85

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:29242231, PubMed:29809151, PubMed:30415835, PubMed:32439656, PubMed:32459176). Preferentially accommodates proteins with transmembrane domains that are weakly hydrophobic or contain destabilizing features such as charged and aromatic residues (PubMed:29242231, PubMed:29809151, PubMed:30415835). Involved in the cotranslational insertion of multi-pass membrane proteins in which stop-transfer membrane-anchor sequences become ER membrane spanning helices (PubMed:29809151, PubMed:30415835). It is also required for the post-translational insertion of tail-anchored/TA proteins in endoplasmic reticulum membranes (PubMed:29242231, PubMed:29809151). 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. Note=Could also be a single-pass transmembrane protein with cytosolic N-terminus and lumenal C-terminus.

Tissue Location
Isoform 1 is expressed in brain and heart. Isoform 2 is expressed in heart.

TMM85 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TMM85 Antibody (N-term) - Images

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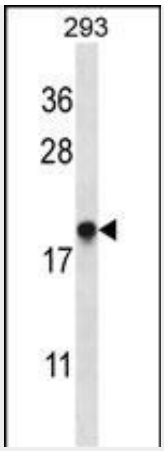
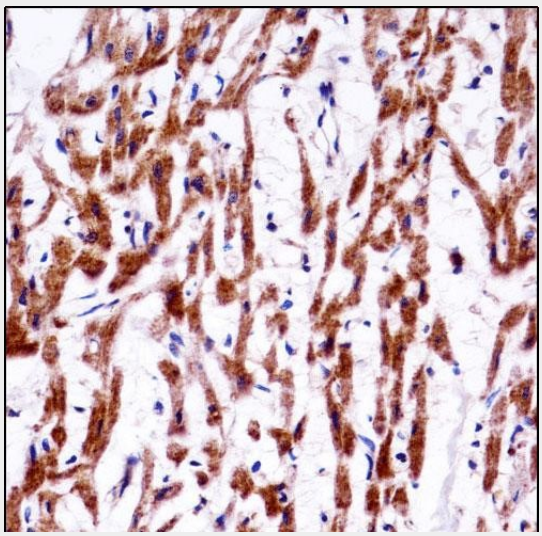


TMM85 Antibody (N-term) (Cat. #AP14717a) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the TMM85 antibody detected the TMM85 protein (arrow).



TMM85 Antibody (N-term) (AP14717a)immunohistochemistry analysis in formalin fixed and paraffin embedded human heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of TMM85 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

TMM85 Antibody (N-term) - Background

TMM85 may mediate anti-apoptotic activity.

TMM85 Antibody (N-term) - References

Ring, G., et al. FEBS Lett. 582(17):2637-2642(2008)
Olsen, J.V., et al. Cell 127(3):635-648(2006)

TMM85 Antibody (N-term) - Citations

- The endoplasmic reticulum membrane complex promotes proteostasis of GABAreceptors