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TTC35 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18405c

Product Information

Application	WB, E
Primary Accession	Q15006
Other Accession	B0BNG0, Q9CRD2, Q5E993, Q8AVU9, Q6INS3, NP_055488.1
Reactivity	Human, Mouse
Predicted	Xenopus, Bovine, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB38454
Calculated MW	34834
Antigen Region	65-91

Additional Information

Gene ID	9694
Other Names	ER membrane protein complex subunit 2, Tetratricopeptide repeat protein 35, TPR repeat protein 35, EMC2, KIAA0103, TTC35
Target/Specificity	This TTC35 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 65-91 amino acids from the Central region of human TTC35.
Dilution	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	TTC35 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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:29242231, PubMed:29809151, PubMed:30415835, PubMed:32439656, PubMed:32459176, PubMed:33964204). 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; Peripheral membrane protein; Cytoplasmic side Note=May also localize to the nuclear envelope {ECO:0000250|UniProtKB:Q9CRD2}

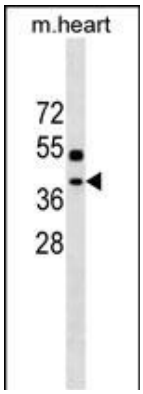
Background

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.

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)

Images



TTC35 Antibody (Center) (Cat. #AP18405c) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the TTC35 Antibody detected the TTC35 protein (arrow).