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C19orf63 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5188a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q5UCC4
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB26647
Calculated MW	27347
Antigen Region	19-48

Additional Information

Gene ID	284361
Other Names	ER membrane protein complex subunit 10, Hematopoietic signal peptide-containing membrane domain-containing protein 1, EMC10, C19orf63, HSM1, INM02
Target/Specificity	This C19orf63 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 19-48 amino acids from the N-terminal region of human C19orf63.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 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	C19orf63 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	EMC10
Synonyms	C19orf63, INM02

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). Promotes angiogenesis and tissue repair in the heart after myocardial infarction. Stimulates cardiac endothelial cell migration and outgrowth via the activation of p38 MAPK, PAK and MAPK2 signaling pathways (PubMed:28931551).
Cellular Location	[Isoform 1]: Endoplasmic reticulum membrane; Single-pass type I membrane protein
Tissue Location	Present in serum (at protein level). Increased expression seen in the left ventrice after myocardial infarction (at protein level). Expressed in the pituitary gland. Expressed in brain (PubMed:33531666).

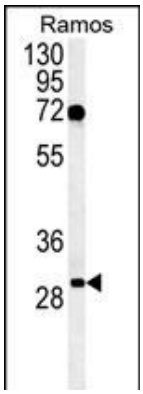
Background

The function of this protein has not been specifically defined.

References

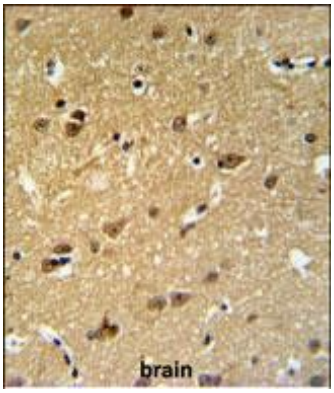
Wang, X., et al. J. Endocrinol. 202(3):355-364(2009)
Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)

Images

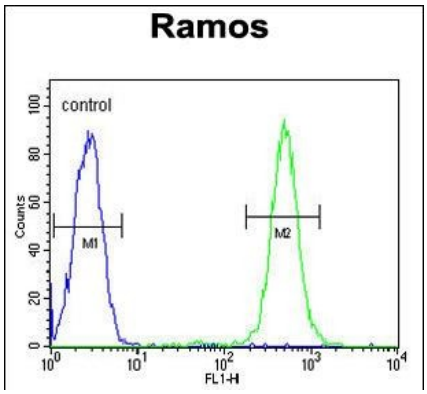


Western blot analysis of C19orf63 Antibody (N-term) (Cat. #AP5188a) in Ramos cell line lysates (35ug/lane).C19orf63 (arrow) was detected using the purified Pab.

C19orf63 Antibody (N-term) (Cat. #AP5188a) IHC analysis in formalin fixed and paraffin embedded human brain



tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the C19orf63 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



C19orf63 Antibody (N-term) (Cat. #AP5188a) flow cytometric analysis of Ramos cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.