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# C19orf63 Antibody (N-term)

**Affinity Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP5188a**

## Specification

### C19orf63 Antibody (N-term) - Product Information

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

### C19orf63 Antibody (N-term) - 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~~1:50~100
FC~~1:10~50

**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.

### C19orf63 Antibody (N-term) - 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:30415835, PubMed:29809151, PubMed:29242231, PubMed:32459176, PubMed:32439656). Preferentially accommodates proteins with transmembrane domains that are weakly hydrophobic or contain destabilizing features such as charged and aromatic residues (PubMed:30415835, PubMed:29809151, PubMed: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, 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). 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).

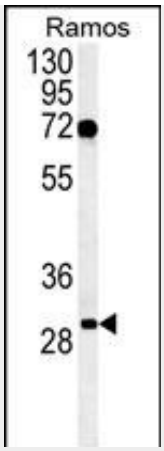
## C19orf63 Antibody (N-term) - Protocols

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

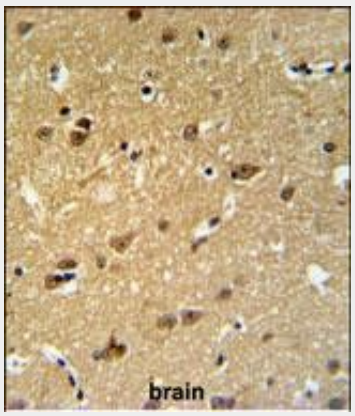
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## C19orf63 Antibody (N-term) - Images

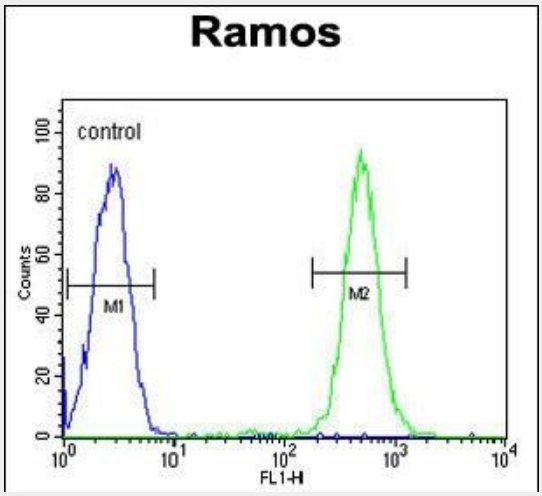
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Western blot analysis of C19orf63 Antibody (N-term) (Cat. #AP5188a) in Ramos cell line lysates (35ug/lane).C19orf63 (arrow) was detected using the purified Pab.




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.

**C19orf63 Antibody (N-term) - Background**

The function of this protein has not been specifically defined.

**C19orf63 Antibody (N-term) - References**

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