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EMC10 Antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI15579

Specification

EMC10 Antibody - C-terminal region - Product Information

Application	**WB**
Primary Accession	Q5UCC4
Other Accession	NP_996261
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**28kDa KDa**

EMC10 Antibody - C-terminal region - Additional Information

Gene ID 284361

Alias Symbol	**EMC10, C19orf63, HSM1, INM02, UNQ764/PRO1556,**

Other Names
ER membrane protein complex subunit 10, Hematopoietic signal peptide-containing membrane domain-containing protein 1, EMC10, C19orf63, HSM1, INM02

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 &mu, l of distilled water. Final Anti-EMC10 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.

Precautions
EMC10 Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

EMC10 Antibody - C-terminal region - 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:<a href="http://www.uniprot.org/citations/32459176"

target="_blank">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).

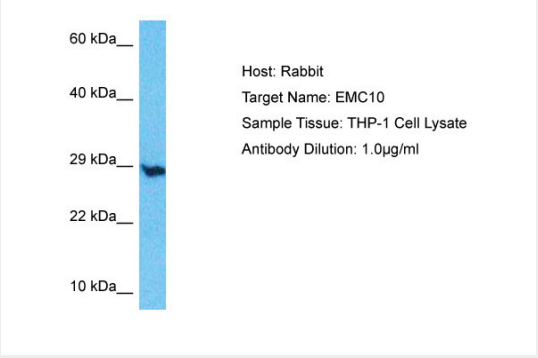
EMC10 Antibody - C-terminal region - Protocols

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

EMC10 Antibody - C-terminal region - Images

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Host: Rabbit
Target Name: EMC10
Sample Tissue: THP-1 Whole cell lysate
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Antibody Dilution: 1.0µg/ml

EMC10 Antibody - C-terminal region - References

Wang X.-C.,et al.Endocr. Relat. Cancer 11:295-303(2004).
Junes-Gill K.S.,et al.J. Neurooncol. 102:197-211(2011).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).