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EMC10 Antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15579

Product Information

Application	WB
Primary Accession	Q5UCC4
Other Accession	NP_996261
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27347

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.

Protein Information

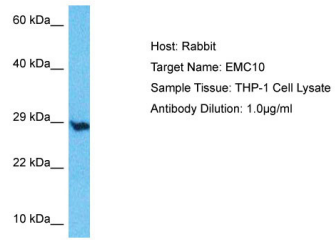
Name	EMC10
Synonyms	C19orf63, INM02
Function	Part of the endoplasmic reticulum membrane protein complex (EMC) that enables the energy-independent insertion into endoplasmic reticulum membranes of newly synthesized membrane proteins (PubMed:29242231, PubMed:29809151, PubMed:30415835, PubMed:32439656, 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).

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).

Images



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