

TMEM111 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5782a

Specification

TMEM111 Antibody (N-term) - Product Information

Application	FC, WB,E
Primary Accession	Q9P0I2
Other Accession	Q5U2V8 , Q99KI3 , Q7SXW4 , Q3ZCB8 , NP_060917.1
Reactivity	Human
Predicted	Bovine, Zebrafish, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	42-70

TMEM111 Antibody (N-term) - Additional Information

Gene ID 55831

Other Names

ER membrane protein complex subunit 3, Transmembrane protein 111, EMC3, TMEM111

Target/Specificity

This TM111 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 42-70 amino acids from the N-terminal region of human TM111.

Dilution

FC~~1:10~50

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

TMEM111 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TMEM111 Antibody (N-term) - Protein Information

Name EMC3

Synonyms TMEM111

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).

Cellular Location

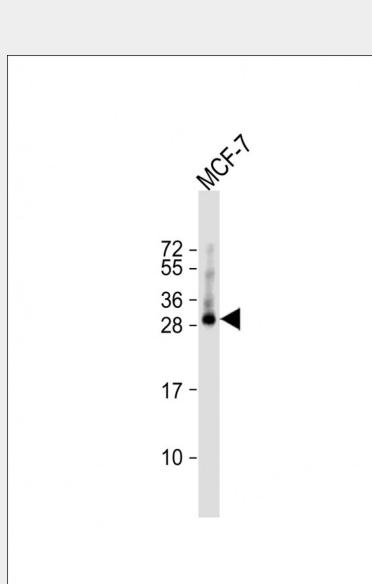
Endoplasmic reticulum membrane; Multi-pass membrane protein

TMEM111 Antibody (N-term) - Protocols

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

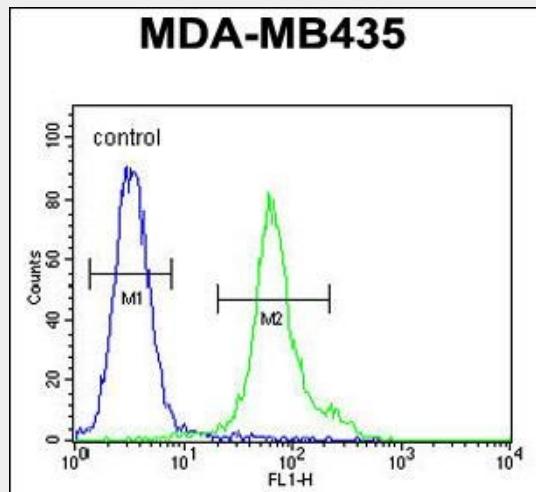
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TMEM111 Antibody (N-term) - Images



Anti-TMEM111 Antibody (N-term) at 1:1000 dilution + MCF-7 whole cell lysate Lysates/proteins at

20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 30 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



TMEM111 Antibody (N-term) (Cat. #AP5782a) flow cytometric analysis of MDA-MB435 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

TMEM111 Antibody (N-term) - References

Hu, R.M., et al. Proc. Natl. Acad. Sci. U.S.A. 97(17):9543-9548(2000)

TMEM111 Antibody (N-term) - Citations

- [The endoplasmic reticulum membrane complex promotes proteostasis of GABA receptors](#)