

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

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**TMEM111 Antibody (N-term) - Product Information**

Application	FC, WB,E
Primary Accession	<a href="#">Q9P0I2</a>
Other Accession	<a href="#">Q5U2V8</a> , <a href="#">Q99KI3</a> , <a href="#">Q7SXW4</a> , <a href="#">Q3ZCB8</a> , <a href="#">NP_060917.1</a>
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

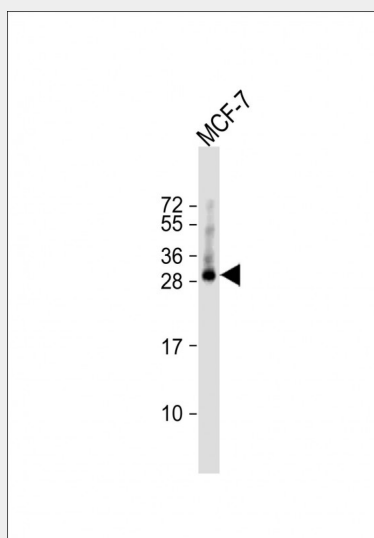
Endoplasmic reticulum membrane; Multi-pass membrane protein

## TMEM111 Antibody (N-term) - Protocols

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

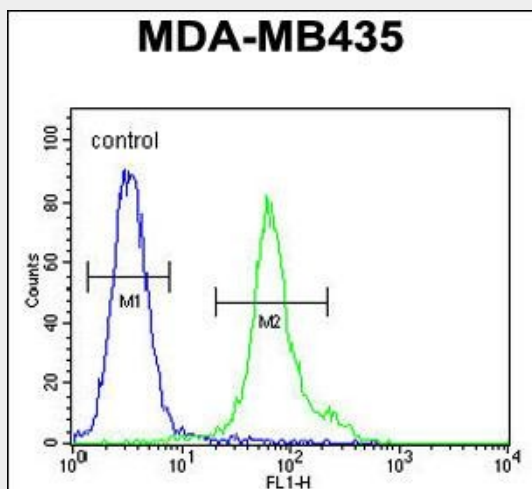
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## 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 GABAreceptors](#)