

**TMEM106A Antibody**  
**Catalog # ASC11461****Specification****TMEM106A Antibody - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">Q96A25</a>
Other Accession	<a href="#">NP_659478</a> , <a href="#">21450796</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	TMEM106A antibody can be used for detection of TMEM106A by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 5 µg/mL.

**TMEM106A Antibody - Additional Information**

Gene ID	113277
Target/Specificity	
TMEM106A;	

**Reconstitution & Storage**

TMEM106A antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

TMEM106A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**TMEM106A Antibody - Protein Information**

**Name** TMEM106A

**Function**

Activates macrophages and polarizes them into M1-like macrophages through the activation of the MAPK and NF-kappaB signaling pathway. Upon activation, up-regulates the expression of CD80, CD86, CD69 and MHC II on macrophages, and induces the release of pro- inflammatory cytokines such as TNF, IL1B, IL6, CCL2 and nitric oxide (By similarity). May play a role in inhibition of proliferation and migration (PubMed:<a href="http://www.uniprot.org/citations/30456879" target="\_blank">30456879</a>, PubMed:<a href="http://www.uniprot.org/citations/29131025" target="\_blank">29131025</a>).

**Cellular Location**

Cell membrane {ECO:0000250|UniProtKB:Q8VC04}; Single-pass membrane protein

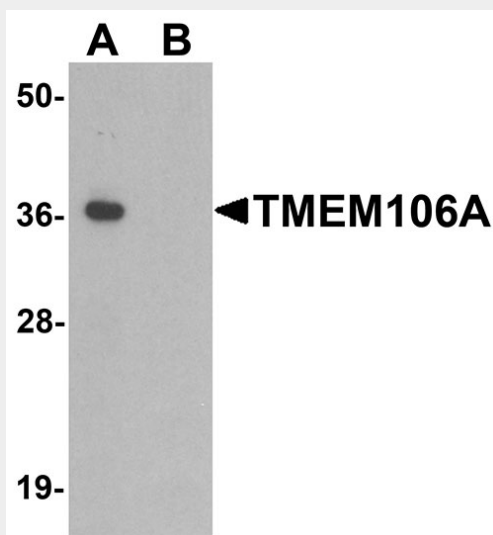
**Tissue Location**

Expressed in renal cells (at protein level) (PubMed:29131025). Expressed in epithelial cells (PubMed:30456879)

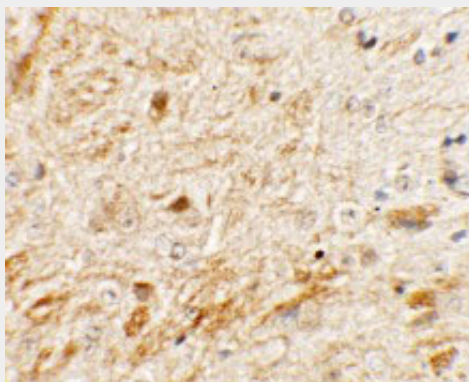
**TMEM106A Antibody - Protocols**

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

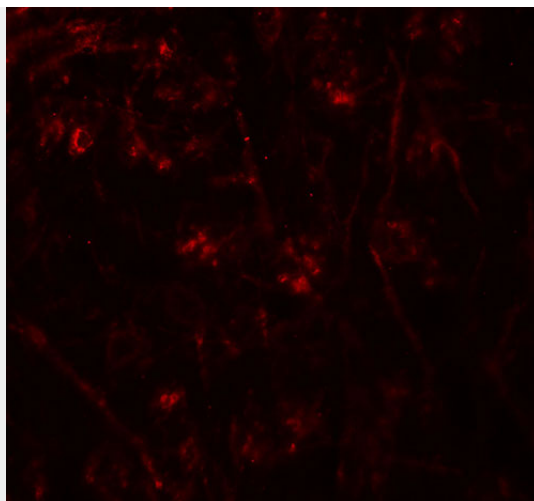
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**TMEM106A Antibody - Images**

Western blot analysis of TMEM106A in A-20 cell lysate with TMEM106A antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of TMEM106A in mouse brain tissue with TMEM106A antibody at 5 µg/mL.



Immunofluorescence of TMEM106A in mouse brain tissue with TMEM106A antibody at 20 µg/mL.

#### **TMEM106A Antibody - Background**

TMEM106A Antibody: Transmembrane protein 106A (TMEM106A) is a single-pass transmembrane protein that is closely related to TMEM106B, a protein that is thought to be a novel risk factor for frontotemporal lobar degeneration (FTLD), a group of clinically, pathologically and genetically heterogeneous disorders associated with atrophy in the frontal lobe and temporal lobe of the brain. The actual roles of TMEM106A and TMEM106B are still undetermined; however, as TMEM106B is involved in FTLD, it is possible that TMEM106A may also be a risk factor for FTLD.

#### **TMEM106A Antibody - References**

Van Deerlin VM, Sleiman PM, Martinez-Lage M, et al. Common variants at 7p21 are associated with frontotemporal lobar degeneration with TDP-43 inclusions. *Nat. Genet.* 2010; 42:234-9  
Aswathy PM, Jairani PS, and Mathuranath PS. Genetics of frontotemporal lobar degeneration. *Ann. Indian Acad. Neurol.* 2010; 13(Suppl 2):S55-62.