

TMEM120A Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP11729a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9BXJ8
Other Accession	NP_114131.1
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB29521
Calculated MW	40610
Antigen Region	7-36

Additional Information

Gene ID	83862
Other Names	Transmembrane protein 120A, Transmembrane protein induced by tumor necrosis factor alpha, TMEM120A, TMPIT
Target/Specificity	This TMEM120A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 7-36 amino acids from the N-terminal region of human TMEM120A.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	TMEM120A Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TMEM120A {ECO:0000303 PubMed:26024229, ECO:0000312 HGNC:HGNC:21697}
Function	Multifunctional protein involved in mechanosensation, and plays an

essential role in lipid metabolism and adipocyte differentiation (PubMed:[26024229](#), PubMed:[36420836](#)). May function as a potential ion channel involved in sensing mechanical stimuli (PubMed:[35235791](#)). Mediates the mechanosensitivity of the PKD2-TMEM120A channel complex through direct physical interaction (PubMed:[36420836](#)). TMEM120A seems to affect mechanosensation by inhibiting PIEZO2 channels, possibly by altering cellular lipid content (By similarity). TMEM120A is structurally similar to a lipid-modifying enzyme, ELOVL7, and contains a bound coenzyme A molecule, which suggests it might function as an enzyme in lipid metabolism (PubMed:[34374645](#), PubMed:[34409941](#), PubMed:[34465718](#)). Additionally, implicated in innate immune response against Zika virus. Acts as a key activator of the antiviral signaling involving STING1 (PubMed:[35013224](#)).

Cellular Location

Cell membrane; Multi-pass membrane protein. Nucleus inner membrane {ECO:0000250|UniProtKB:Q8C1E7}; Multi-pass membrane protein. Endoplasmic reticulum

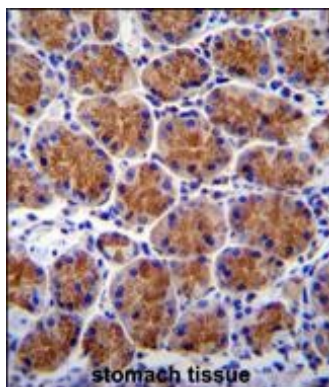
Tissue Location

Expressed in nociceptors.

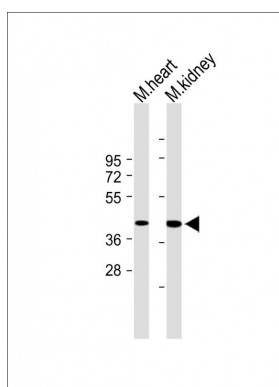
References

Strausberg, R.L., et al. Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903(2002)

Images



TMEM120A Antibody (N-term) (Cat. #AP11729a) immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of TMEM120A Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



All lanes : Anti-TMEM120A Antibody (N-term) at 1:1000 dilution Lane 1: mouse heart tissue lysate Lane 2: mouse kidney tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 44kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.