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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

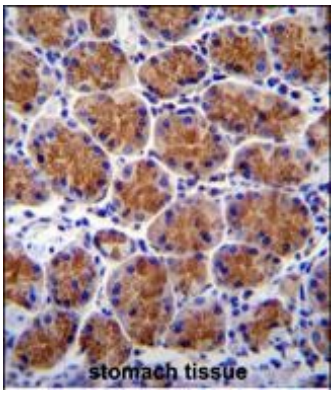
Name	TMEM120A {ECO:0000303|PubMed:26024229, ECO:0000312|HGNC:HGNC:21697}
Function	Multifunctional protein involved in mechanosensation, and plays an

	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.

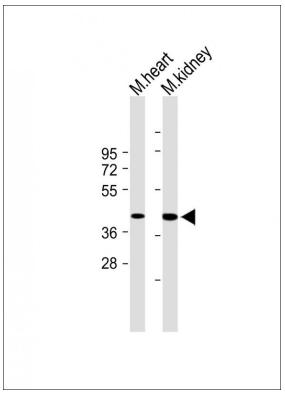
References

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'.