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TMEM120A Rabbit pAb

Catalog # AP96887

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q8C1E7
Other Accession	Q8C1E7
Predicted	Rat, Mouse, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40751
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse TMEM120A
Epitope Specificity	251-343/343
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
SIMILARITY	Belongs to the TMEM120 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Additional Information

Gene ID	215210
Other Names	NET29; TACAN; TMPIT; 2010310D06Rik; RGD1311474; TACAN_BOVIN; TMEM120A; Ion channel TACAN; TACAN_HUMAN; Protein TACAN; Transmembrane protein induced by tumor necrosis factor alpha; TACAN_MOUSE; TACAN_RAT; transmembrane protein 120A
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Tmem120a {ECO:0000303|PubMed:26024229, ECO:0000312|MGI:MGI:2686991}
Function	Multifunctional protein involved in mechanosensation, and plays an essential role in lipid metabolism and adipocyte differentiation (PubMed:26024229, PubMed:32084332, PubMed:34731626, PubMed:35027552, PubMed:39147733). May function as a potential ion

channel involved in sensing mechanical stimuli (By similarity). Mediates the mechanosensitivity of the PKD2-TMEM120A channel complex through direct physical interaction (By similarity). TMEM120A seems to affect mechanosensation by inhibiting PIEZO2 channels, possibly by altering cellular lipid content (PubMed:35819364, PubMed:39147733). 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:34374644).

Cellular Location

Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q9BXJ8}. Nucleus envelope. Nucleus inner membrane {ECO:0000250|UniProtKB:Q9BXJ8}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q9BXJ8}. Endoplasmic reticulum {ECO:0000250|UniProtKB:Q9BXJ8}

Tissue Location

Widely expressed, with higher expression in the heart, kidneys, colon and sensory neurons of the dorsal root ganglia (PubMed:32084332). Expressed in nociceptors (PubMed:32084332). Highly expressed in white adipose tissue (at protein level) (PubMed:26024229) Highly expressed in brown adipose tissue and expressed at low levels in liver (PubMed:26024229).

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