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CALHM3 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18988a

Product Information

Application	WB, E
Primary Accession	Q86XJ0
Other Accession	NP_001123214.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB39222
Calculated MW	38496
Antigen Region	68-97

Additional Information

Gene ID	119395
Other Names	Calcium homeostasis modulator protein 3, Protein FAM26A, CALHM3, FAM26A
Target/Specificity	This CALHM3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 68-97 amino acids from the N-terminal region of human CALHM3.
Dilution	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	CALHM3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CALHM3 (HGNC:23458)
Synonyms	FAM26A

Function	Pore-forming subunit of gustatory voltage-gated ion channels required for sensory perception of sweet, bitter and umami tastes. With CALHM1 forms a fast-activating voltage-gated ATP-release channel in type II taste bud cells, ATP acting as a neurotransmitter to activate afferent neural gustatory pathways. Acts both as a voltage-gated and calcium-activated ion channel: mediates neuronal excitability in response to membrane depolarization and low extracellular Ca(2+) concentration. Has poor ion selectivity and forms a wide pore (around 14 Angstroms) that mediates permeation of small ions including Ca(2+), Na(+), K(+) and Cl(-), as well as larger ions such as ATP(4-).
Cellular Location	Basolateral cell membrane {ECO:0000250|UniProtKB:J3QMI4}; Multi-pass membrane protein
Tissue Location	Specifically expressed in circumvallate taste bud cells.

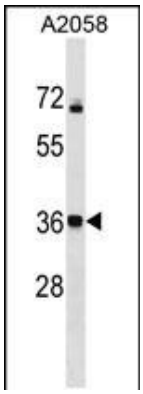
Background

The specific function of CALHM3 remains unknown. There are two different isoforms generated by alternative splicing.

References

Shibata, N., et al. J. Alzheimers Dis. 20(2):417-421(2010)
Dreses-Werringloer, U., et al. Cell 133(7):1149-1161(2008)
Grupe, A., et al. Am. J. Hum. Genet. 78(1):78-88(2006)
Deloukas, P., et al. Nature 429(6990):375-381(2004)

Images



CALHM3 Antibody (N-term) (Cat. #AP18988a) western blot analysis in A2058 cell line lysates (35ug/lane).This demonstrates the CALHM3 antibody detected the CALHM3 protein (arrow).