CALHM1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CALHM1, Polyclonal Antibody
Full Product Name	CALHM1 Rabbit pAb
Product Gene Name	anti-CALHM1 antibody
Product Synonym Names	FAM26C
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Rat
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	38kDa
OMIM	612234
3D Structure	ModBase 3D Structure for Q8IU99
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 202-346 of human CALHM1 (NP_001001412.3).
Cellular Localization	Cell Membrane, Endoplasmic Reticulum, Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CALHM1 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-CALHM1 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-CALHM1 antibody	Pore-forming subunit of a voltage-gated ion channel required for sensory perception of sweet, bitter and umami tastes. Specifically present in type II taste bud cells, where it plays a central role in sweet, bitter and umami taste perception by inducing ATP release from the cell, 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 changes in extracellular Ca2+ concentration. Has poor ion selectivity and forms a wide pore (around 14 Angstroms) that mediates permeation of Ca2+, Na+ and K+, as well as permeation of monovalent anions. Acts as an activator of the ERK1 and ERK2 cascade. Triggers endoplasmic reticulum stress by reducing the calcium content of the endoplasmic reticulum. May indirectly control amyloid precursor protein (APP) proteolysis and aggregated amyloid-beta (Abeta) peptides levels in a Ca2+ dependent manner.
Other Notes	Small volumes of anti-CALHM1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CALHM1 purchase	MBS8547089 is an antibody targeting CALHM1. Also known as CALHM1 Rabbit pAb. Reactive in Human, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CALHM1. It may not necessarily be applicable to this product.

NCBI GI #	194440685
NCBI GeneID	255022
NCBI Accession #	NP_001001412
UniProt Primary Accession #	Q8IU99
UniProt Related Accession #	Q8IU99
GenBank Nucleotide #	NP_001001412.3
NCBI Official Full Name	calcium homeostasis modulator protein 1
NCBI Official Synonym Full Names	calcium homeostasis modulator 1
NCBI Official Symbol	CALHM1
NCBI Official Synonym Symbols	FAM26C
UniProt Protein Name	Calcium homeostasis modulator protein 1
UniProt Synonym Protein Names	Protein FAM26C
Protein Family	Calcium homeostasis modulator protein
UniProt Gene Name	CALHM1
UniProt Synonym Gene Names	FAM26C
UniProt Entry Name	CAHM1_HUMAN
NCBI Protein Information	calcium homeostasis modulator protein 1
NCBI Summary for CALHM1	This gene encodes a calcium channel that plays a role in processing of amyloid-beta precursor protein. A polymorphism at this locus has been reported to be associated with susceptibility to late-onset Alzheimer's disease in some populations, but the pathogenicity of this polymorphism is unclear.[provided by RefSeq, Mar 2010]
UniProt Comments for CALHM1	CALHM1: May be a pore-forming ion channel. Controls cytosolic Ca(2+) permeability and cytosolic Ca(2+) concentration. Controls amyloid precursor protein (APP) proteolysis and aggregated amyloid-beta (Abeta) peptides levels in a Ca(2+) dependent manner. Belongs to the FAM26 family. Protein type: Membrane protein, multi-pass; Membrane protein, integral; Channel, calcium Chromosomal Location of Human Ortholog: 10q24.33 Cellular Component: endoplasmic reticulum membrane; integral to plasma membrane Molecular Function: identical protein binding; calcium channel activity; voltage-gated ion channel activity; calcium activated cation channel activity Biological Process: ATP transport; sensory perception of umami taste; sensory perception of sweet taste; sensory perception of bitter taste; cation transport; protein homooligomerization
Research Articles on CALHM1	**1.** Meta-analysis suggested that CALHM1 rs2986017 might be associated with increased Alzheimer's disease risk in Caucasian, but not Asian population
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