BACKGROUND
CALHM1 (calcium homeostasis modulator 1), also known as FAM26C, is a 346 amino acid multi-pass endoplasmic reticulum membrane protein that belongs to the FAM26 family. CALHM1 co-localizes with GRP78 to the endoplasmic reticulum. Predominantly expressed in adult brain, CALHM1 may be a pore-forming ion channel that controls cytosolic Ca\(^{2+}\) permeability and cytosolic Ca\(^{2+}\) concentration in the cell. It is suggested that CALHM1 regulates amyloid precursor protein proteolysis and aggregated amyloid-\(\beta\) peptides levels in a Ca\(^{2+}\) dependent manner. CALHM1 homomultimerizes and shares strong sequence similarities with the selectivity filter of the NMDA receptor, which generates a large Ca\(^{2+}\) conductance across the plasma membrane. CALHM1 may be a potential factor involved in the pathogenesis of Alzheimer’s disease.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: CALHM1 (human) mapping to 10q24.33; Calhm1 (mouse) mapping to 19 C3.

SOURCE
CALHM1 (G-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of CALHM1 of human origin.

STORAGE
Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.