

CALHM2 (E-12): sc-167376

BACKGROUND

The level of intracellular calcium is tightly regulated in all eukaryotic cells. A modest increase in this level can result in a myriad of physiological responses, most of which are mediated by calmodulin (CaM), the universal calcium sensor. CALHM2 (Calcium homeostasis modulator protein 2), also known as FAM26B, is a 323 amino acid multi-pass membrane protein that may be involved in the modulation of calcium signaling stemming from bitter, sweet and umami receptor activation in taste buds. Unlike CALHM1, it is not likely that CALHM2 plays a role in the pathogenesis of Alzheimer's Disease. There are three isoforms of CALHM2 that are produced as a result of alternative splicing events. The gene encoding CALHM2 maps to human chromosome 10, which contains over 800 genes and 135 million nucleotides, making up nearly 4.5% of the human genome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CALHM2 (human) mapping to 10q24.33; Calhm2 (mouse) mapping to 19 C3.

SOURCE

CALHM2 (E-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of CALHM2 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-167376 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CALHM2 (E-12) is recommended for detection of CALHM2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other FAM26 family members.

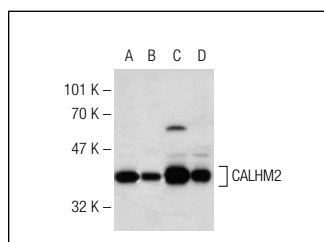
CALHM2 (E-12) is also recommended for detection of CALHM2 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for CALHM2 siRNA (h): sc-90780, CALHM2 siRNA (m): sc-145035, CALHM2 shRNA Plasmid (h): sc-90780-SH, CALHM2 shRNA Plasmid (m): sc-145035-SH, CALHM2 shRNA (h) Lentiviral Particles: sc-90780-V and CALHM2 shRNA (m) Lentiviral Particles: sc-145035-V.

Molecular Weight of CALHM2: 36/24/22 kDa.

Positive Controls: SH-SY5Y cell lysate: sc-3812, Hep G2 cell lysate: sc-2227 or SK-N-MC cell lysate: sc-2237.

DATA



CALHM2 (E-12): sc-167376. Western blot analysis of CALHM2 expression in HeLa (A), SH-SY5Y (B), SK-N-MC (C) and Hep G2 (D) whole cell lysates.

STORAGE

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

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.