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Datasheet for ABIN4998947

anti-CALHM1 antibody (AA 161-260) (Alexa Fluor 680)

Overview

Quantity:	100 µL
Target:	CALHM1
Binding Specificity:	AA 161-260
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CALHM1 antibody is conjugated to Alexa Fluor 680
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CALHM1/FAM26C
Isotype:	IgG
Predicted Reactivity:	Human, Mouse, Rat, Dog, Cow, Horse, Chicken, Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	CALHM1
Alternative Name:	CALHM1/FAM26C (CALHM1 Products)
Background:	Synonyms: CAHM1_HUMAN, Calcium homeostasis modulator 1, Calcium homeostasis

Target Details

modulator protein 1, CALHM1, FAM26C, Family with sequence similarity 26, member C, MGC39514, MGC39617, Protein FAM26C.

Background: CALHM1 is a 346 amino acid multi-pass endoplasmic reticulum membrane protein that belongs to the FAM26 family. CALHM1 co-localizes with GRP 78 to the endoplasmic reticulum. Predominantly expressed in adult brain, CALHM1 may be a pore-forming ion channel that controls cytosolic Ca²⁺ permeability and cytosolic Ca²⁺ concentration in the cell. It is suggested that CALHM1 regulates amyloid precursor protein proteolysis and aggregated amyloid-beta peptides levels in a Ca²⁺ dependent manner. CALHM1 homomultimerizes and shares strong sequence similarities with the selectivity filter of the NMDA receptor, which generates a large Ca²⁺ conductance across the plasma membrane. CALHM1 may be a potential factor involved in the pathogenesis of Alzheimer's disease.

Application Details

Application Notes: IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months