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Datasheet for ABIN4998948

anti-CALHM1 antibody (AA 161-260) (Alexa Fluor 750)

Overview

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|----------------------|--|
| 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 750 |
| 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