

Datasheet for ABIN7581840 anti-CALHM2 antibody (Extracellular)



Overview

Quantity:	50 µL
Target:	CALHM2
Binding Specificity:	AA 133-146, Extracellular
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CALHM2 antibody is un-conjugated
Application:	Western Blotting (WB), Live Cell Imaging (LCI), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (IHC)

Product Details

Purpose:	A Rabbit Polyclonal antibody to CALHM2 (extracellular)
İmmunogen:	(C)SEFVDPSSLTAGDK, corresponding to amino acid residues 133 - 146 of mouse CALHM2
Sequence:	(C)SEFVDPSSLT AGDK
lsotype:	lgG
Specificity:	Extracellular, 2nd loop.
Predicted Reactivity:	Rat - 13 out of 14 amino acid residues identical Human - 11 out of 14 amino acid residues identical
Characteristics:	Anti-CALHM2 (extracellular) Antibody (ABIN7581840) is a highly specific antibody directed against an extracellular epitope of the mouse protein. The antibody can be used in western blot,

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Product Details	
	immunohistochemistry and flow cytometry applications. It has been designed to recognize
	CALHM2 from mouse, rat and human samples.
Purification:	Affinity purified on immobilized antigen.
Target Details	
Target:	CALHM2
Alternative Name:	CALHM2 (CALHM2 Products)
Background:	Calcium homeostasis modulator protein 2, Protein FAM26B, FAM26B,Calcium homeostasis
	modulator protein 2 (CALHM2) is a member of the CALHM channel family, a group of
	transmembrane proteins that play essential roles in calcium ion transport and homeostasis.
	The CALHM family consist in humans of six members: CALHM1 to CALHM6.1CALHM2
	functions as a calcium-permeable ion channel. It allows calcium ions to pass through the cell
	membrane in response to specific stimuli, such as changes in membrane potential or
	extracellular calcium concentration.2,3CALHM2 is composed of 323 amino acids and
	assembles as an undecamer with each protomer containing a large N-terminal transmembrane
	(TM) domain with 4 TM helices, an intracellular C-terminal domain, and a small extracellular
	linker region. 2,3CALHMs permeate ions and ATP in a voltage-dependent manner to modulate
	neuronal excitability. CALHM2 has been shown to accommodate lipids in its hydrophobic
	channel in order to regulate channel function.2,3Ion and ATP permeation by CALHM proteins
	play a role in the physiology of cognition, depression, gustatory signaling, and the pathology of
	Alzheimer's disease.Specifically, CALHM2 expression was increased in Alzheimer's disease
	(AD) patients and in an AD model in mice. Knockout of CALHM2 improved A eta plaque
	deposition, reduced neuroinflammation, and improved cognitive impairment in an AD mice
	model.4Moreover, microglial CALHM2 may have a central role in both chronic inflammatory
	diseases (like AD) and in acute inflammatory reactions and neuroinflammation.4
Gene ID:	72691
UniProt:	Q8VEC4
Application Details	
Application Notes:	Antigen preadsorption control: 1 µg peptide per 1 µg antibody
	Application Dilutions Immunohistochemistry paraffin embedded sections ihc: 1:300
	Application Dilutions Western blot wb: 1:200
Restrictions:	For Research Use only
UniProt: Application Details Application Notes:	72691 Q8VEC4 Antigen preadsorption control: 1 µg peptide per 1 µg antibody Application Dilutions Immunohistochemistry paraffin embedded sections ihc: 1:300 Application Dilutions Western blot wb: 1:200

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Handling

Format:	Lyophilized
Reconstitution:	0.2 mL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature.
	Upon arrival, it should be stored at -20°C.
	Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week.
	For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and
	thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).